SUZO HAPP

2010 • 2011

GAMING

www.suzohapp.com

$10.00

OUR MISSION

To establish Suzo-Happ as the premier provider of quality parts, services and supplies in the world while maintaining our uncompromising principles as we grow.

We adhere to the following principles:

- Enthusiastically strive to exceed the expectations of our customers and employees.
- Apply the highest standards of excellence to the design, selection and quality of our products and services.
- Provide a great Team based work environment and treat each other with respect and dignity.

Quality

We test and retest the products we assemble and sell, to ensure the highest levels of quality. We constantly strive to improve the quality of our products and service.

Service

In an effort to maintain the ultimate in customer satisfaction, we bring you a new level of convenience with our industry leading web site. Through our web site you have access to our on-line catalogs, new products, monthly specials, and our on-line ordering system. The shopping cart system allows you to easily build a secure on-line order with current pricing and availability, 24 hours a day/7days a week. Other on-line benefits include viewing the status or history of orders, easy duplication of previous orders, and e-mail notification with tracking information upon shipment of orders.

We ship quickly and accurately from our distribution centers. Our friendly sales staff will gladly help you in English or in Spanish. Customer satisfaction is our first priority.

Value

Competitive everyday prices and special low prices for volume buyers, or export customers.

Innovation

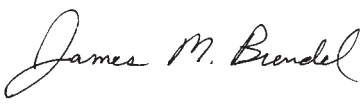
Our engineering team is constantly developing new products that lead the industries we serve. Cost reduction and product improvements are our goals.

Suzo-Happ is dedicated to the proposition that our customers are our most valuable resource. If we ever fail to satisfy you in any way, please call one of us personally.

Catalog Prices

Due to fluctuating costs we have removed prices from this catalog as they are obsolete shortly after the catalog is printed. Please call for current prices or check them on the web at www.suzohapp.com

Thank you for your business.



James Brendel
President, Worldwide Gaming

Tom Happ
President, Distribution Products

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SUZO-HAPP GROUP

CABINET WORKS

Metal Fabrication & Assembly Solutions

SUZO HAPP

www.suzohapp.com/cabinetworks

ASSEMBLY SOLUTIONS METAL FABRICATION

Cabinet Works, a division of Suzo-Happ Group, produces an average of 50,000 gaming machine cabinets, stands and related products annually.
Our turnkey operations facility in Las Vegas enables us to provide complete manufacturing and service with advanced engineering design, high quality fabrication capabilities and on time delivery.

YOUR ASSEMBLY SOLUTIONS PROVIIDER

In addition to metal fabrication and lamination, Cabinet Works/Suzo-Happ manufactures and distributes key components required for use in gaming cabinets. We offer many levels of integration by installing various key components to provide a value added solution designed around your specific needs.
Cabinet Works supplies installation of bill validators, reel mechanisms, ticket printers, toppers, buttons or control panels, monitors, switches, wire harnesses, etc.

We customize electro-mechanical assembly of third party parts and components into cabinetry.
Through pre-approved vendors, we also offer such secondary services as decorative or functional electro-plating, machined parts and signage/graphics.

www.suzohapp.com/cabinetworks

LAMINATION DESIGN ENGINEERING

Sheet Metal Fabrication

Our 58,000 square foot facility holds key equipment and supporting tools needed to facilitate the assembly and finishing of products as well as provide quality assurance.

- AMADA ELMK 3610NT
- AMADA VIPROS 358 King
- AMADA APELIO III 367V

Quality Design and Engineering

Cabinet Works houses a full service design department that uses Solid Works 3D MCAD software. We are experienced in all aspects of engineering, from working with customer supplied ideas to full turnkey project development.

- AMADA CNC 50 Ton Press Brake RG 50
- AMADA CNC 80 Ton Press Brake RG 80
- AMADA CNC 125 Ton Press Brake RG 125

- Shearing
- Punching

- Quality Control
- Inspection

- MIG & TIG Welding
- Spot Welding

- High Volume Stamping
- Hardware Insertion

www.suzohapp.com/cabinetworks

Cabinet Works provides and supports direct services needed in the gaming industry.

- All aspects of precision metal fabrication
- Application of any type of electrostatic powder coat paint
- Application of any type of plastic or metallic laminate, or combination of paint and laminate
- Global Installation

Laminating

Complete Custom Laminating Department

Powder Coating

Full Service Automated Powder Coating Line

Global Installation

Unpacking of machines and placement of games

Installation of toppers, tower lights and locks

Configuration of assembled machines

Global installation photos provided courtesy of Carnival Corporation Casino Division

Cabinet Works Office
7390 Eastgate Road, Suite 160
Henderson, NV. 89011
Main: 702-438-8584
Local Fax: 702-438-3988
Email:
info-cabinetworks@suzohapp.com

Las Vegas Office
2015 Helm Drive
Las Vegas, NV. 89119
Toll Free: 888-289-4277
Toll Free Fax: 877-870-2259
Local Fax: 702-597-4837
Email: service@suzohapp.com

Chicago Office
106 Garlisch Drive
Elk Grove Village, IL. 60007
Toll Free: 888-289-4277
Toll Free Fax: 800-593-4277
Local Fax: 847-593-6137
Email: info@suzohapp.com

Global capability and scale

Innovative customer-centric engineering

Service commitment

Solutions focused

SUZO HAPP

GAMING, AMUSEMENT AND INDUSTRIAL COMPONENTS

Products we manufacture or distribute

Gaming: *Hoppers, topper boxes, pushbuttons, bill validators, game devices, LCD Monitors, touch screens, tower lights*

Amusement: *Coin doors, trackballs, LCD, monitors, power supplies, driving controls, joysticks, optical guns, bill validators*

Vending: *Temperature controls, T-handles, vinyl, security, hand trucks, bill validators*

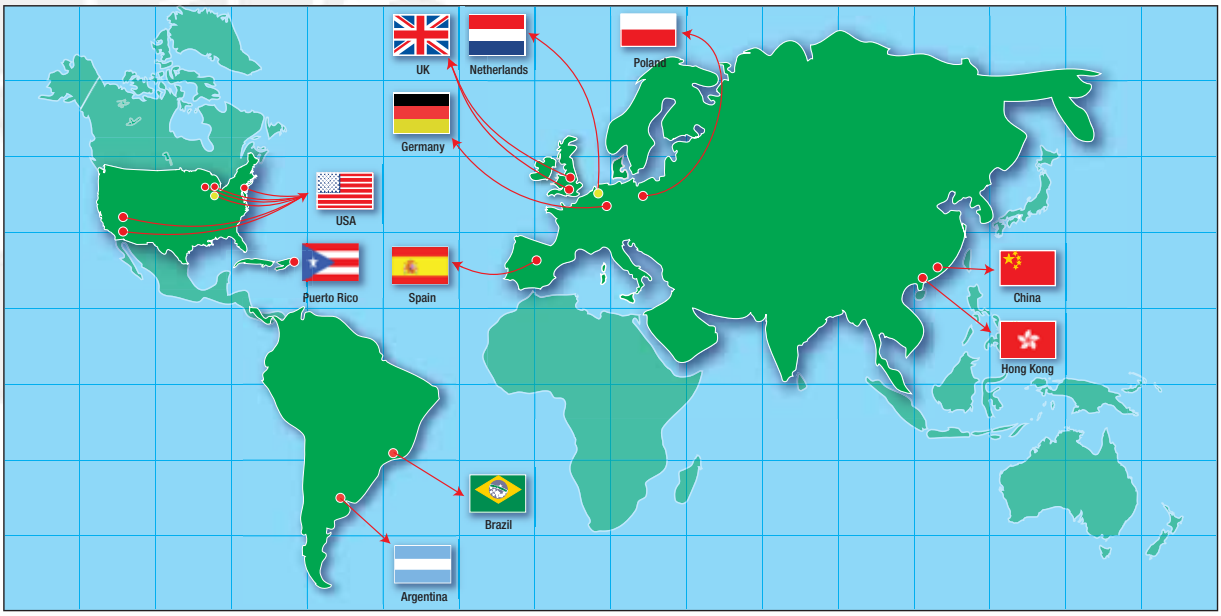
Industrial Components: *Custom products, joystick controls, vending spare parts, snow plow controls, heavy equipment controls*

Suzo-Happ Group is the global leader in the manufacture and distribution of gaming and amusement parts and accessories.

Suzo-Happ Group was formed in January 2005 as the result of the merger of Suzo (formerly Suzo International) and Happ (formerly Happ Controls). Suzo-Happ Group has nearly 500 employees in 15 locations serving customers in over 80 countries.

Suzo-Happ Group leverages a shared commitment to quality-focused product development, world-class customer care and unrivaled distribution capabilities and reach.

Presentation



Global capability and scale

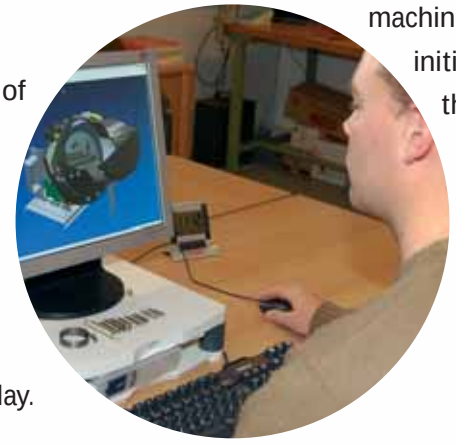
Suzo-Happ Group has nearly 500 employees in 15 locations serving customers in over 80 countries.

Each branch of Suzo-Happ Group has responsibility for its own markets and for its own customers. This allows us to react quickly either individually or as a group to international, national, regional and local developments. Suzo-Happ Group supplies its customers with a comprehensive range of over 50,000 different products. From the latest in-house change machine to a simple cable for a slot machine, Suzo-Happ Group can service every corner of the globe. At present, Suzo-Happ Group exports to 80 different countries, to cover the ever-expanding world market.

Innovative customer-centric engineering

The combined Suzo-Happ Group has extensive resources which provides better service to customers and a world-class platform for research and development activity.

Research and development is one of the top priorities. We pride ourselves on having well educated specialists working in our R&D department, who anticipate the needs of customers and develop new and more sophisticated product lines everyday.



The engineering team at Suzo-Happ Group has over 200 years of engineering development experience on three continents and is continuously developing new and innovative products.

Solutions focused

Suzo-Happ Group has the ability to broaden its product lines, streamline its global distribution capabilities and create value-added solutions for its large customer base.

On top of selling well-known brand names, Suzo-Happ Group develops its own products which are developed for the industry and manufactured under its own control. These include quality components, complex electronics, software and complete finished products.

Suzo-Happ Group also programs software for various money processing machines, such as gaming machines and change machines, and takes the initiative on new products and problems that may affect its customers in the future.

Suzo-Happ Group provides custom engineered solutions for our customers' ever-changing needs. The focus is on producing modern, sophisticated and user-friendly products.

Stay connected…

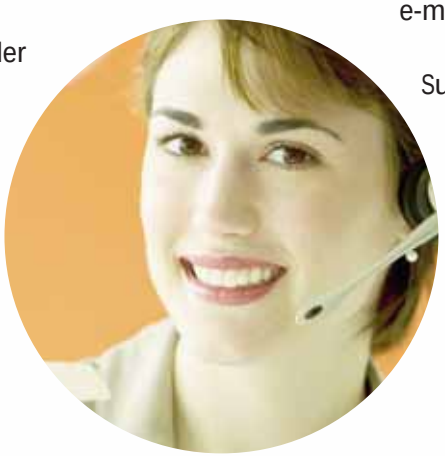
suzohapp.com

Service commitment

Suzo-Happ Group takes a consultative approach to serving its customers with comprehensive after-sales services within its own technical and marketing departments.

At Suzo-Happ Group Holland, all our warehousing is fully bar-coded, and this coupled with our real-time data processing system, produces accurate reporting of inventory and shortened, reliable delivery times

Suzo-Happ Group North America's culture of efficiency drives its operations. An order received by phone or online is usually picked, packed, shipped and invoiced within a couple of hours. Moreover, a highly structured internal tracking system allows sales staff and customers to follow each order every step of the way.



As products are invoiced, the company's inventory database is automatically updated and shipment tracking details are sent via e-mail as well.

Suzo-Happ Group North America also maintains repair facilities in Illinois, Las Vegas, and New Jersey. Suzo-Happ Group is a repair center for FutureLogic printers, Ceronix monitors, MEI bill validators, Kortek monitors, Starpoint Reels and other gaming products.

SUZO · HAPP GROUP

GAMING, AMUSEMENT & INDUSTRIAL COMPONENTS

The two companies that formed the Suzo-Happ Group are now exclusively operating under that name.

SUZO®

Founded in 1955

49,000 sq.ft. production facility

Supplies customers with over 30,000 products

Branch offices located in Germany, United Kingdom, Spain, Belgium, Poland, Argentina and Brazil

Maintains modern manufacturing facility in China

Suzo-Happ Group Holland (formerly Suzo International), founded in Rotterdam in 1955, supplies systems and components for the amusement, gaming, casino, and vending industries, as well as money processing machines and banknote readers. Former Suzo locations that are now part of Suzo-Happ Group are located in Germany, Poland, Spain, the United Kingdom, Brazil and Argentina, Suzo-Happ Group serves customers in over 80 different countries and has achieved a reputation for providing exceptional customer service.

In 2005, Suzo-Happ Group Holland celebrated 50 years of serving the gaming, casino, amusement and vending industries. Suzo-Happ Group prides itself on being a historically rich company with a sound vision of the future.

Core products include coin hoppers, pushbuttons, tower lights, topper boxes and handle mechanisms.

1955 **Suzo International is founded**

1988 Suzo opens first international branch in Germany

1991 Suzo opens branch office in United Kingdom

1993 Suzo opens branch office in Belgium

2001 Suzo opens branch office in Argentina

Suzo opens branch office in Brazil

2002 Suzo is appointed Casinos & Gaming Suppliers as distributor for Peru, Ecuador and Chile and Famostar S. A. electronica for Uruguay

1986 **Happ Controls is founded**

1998 Happ opens branch office in Las Vegas, NV

2000 Happ opens branch office in the United Kingdom

Happ acquires PARTSTAR division of Carlton Bates Corporation

2001 Happ acquires Midway Games' service business

Happ acquires Well-Gardner's coin door division

2002 Happ acquires Wholesale Electronics

Happ opens branch office in New Castle, DE

SUZO HAPP

GAMING, AMUSEMENT AND INDUSTRIAL COMPONENTS

HAPP®

Suzo-Happ Group North America (formerly Happ Controls) was founded in 1986 and is headquartered in Elk Grove, IL. The company has additional distribution centers in Las Vegas, NV, Menomonee Falls, WI, and Minneapolis, MN. The company specializes in the manufacturing and distribution of amusement, gaming, vending and industrial parts and accessories.

Happ Controls was founded by Frank Happ, who purchased what had become a diversified parts supply business from U.K.-based Coin Controls. In 1998, the company expanded into the distribution of parts and supplies for gaming machines. Happ soon became a leading supplier to the industry.

Suzo-Happ Group North America's core products include LCD monitors, pushbuttons, topper boxes, touch screens and bill validators.

The Company focus has been to aggressively expand our sales staff and product lines to better serve the needs of its gaming, amusement, vending and industrial component customers.

Founded in 1986

Nearly 75,000 sq. ft. facility in Elk Grove, IL

Elk Grove location produces over 20,000 assembled products per day

Manufactures over 12,000 SKUs in over 200 unique product groups

Distributes over 40,000 items to the North American market

Processes over 650 shipments per day

Offices located in Las Vegas, NV, Menomonee Falls, WI, and Minneapolis, MN.

2003
Happ opens branch office in Greenville, SC

2004
Happ acquires Perfect 360 Joystick

2004
Suzo opens branch office in Poland

2005
Suzo and Happ merge to form Suzo-Happ Group

2005
Suzo-Happ Group merger with AESI

2006
Happ acquires Mazzco

2006
Suzo acquires Sadectronic in Spain

2006
Suzo-Happ Group acquires Starpoint

STARPOINT

2007
Suzo-Happ Group acquires Chinatec

2008
Suzo-Happ Group acquires Owens Precision Fabricating (OPF) to create Cabinet Works

SUZO HAPP

LOCAL SERVICE WITH A CHINA ADVANTAGE

Custom Engineered Solutions from Concept to Production

Since 1993 the Suzo-Happ Group China facility has been committed to the development and manufacturing of custom OEM industrial products and sub-assemblies for companies worldwide. Past and present customers include clients from all over the world in various industries such as Gaming, Amusement, Vending, Transportation, POS systems.

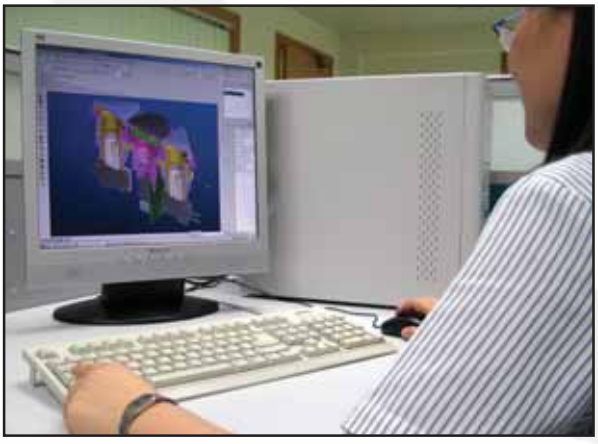
Features

- ISO 9001 Certified and Approved
- Over 270 employees
- 130,000 sq ft under one roof
- ERP Control System

Staff Breakdown	Staff
Electromechanical and Electronics R&D	15
Mechanical Design	5
Electrical Design	3
Electronic Tech	3
Software	1
Other	3
Tool Design	26
Plastic Injection Molding	40
SMD Assembly and Production	12
Production and Assembly	130
QC, QA and Material Control	30
Management and Administration	20
Total Staff	273

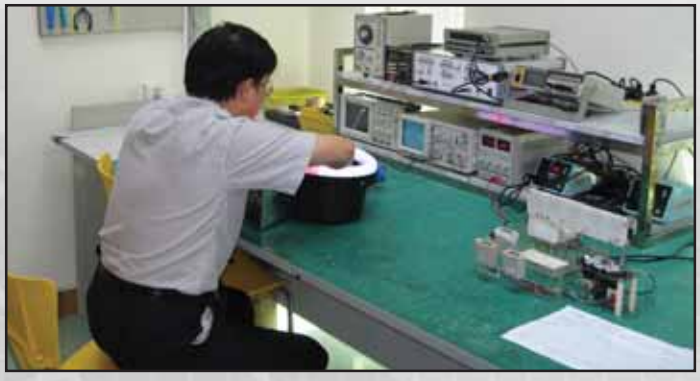
Product Development

Extensive in-house resources allow feasibility studies, design engineering, product development and production. Projects can be taken from concept to completion quickly with custom engineered solutions.



Experienced in-house Industrial, Mechanical, Electronic and Plastic Tooling R&D teams can provide full R&D design and advise on product functionality, material and component selection. Modern modeling technology ensures the mechanical design process to be effective and accurate.

Product Development (Continued)



Multiple project teams are capable of handling mechanical and electronic designs at the same time which reduces turnaround time.

Injection Molding and Tooling

Extensive equipment in-house allows products to be manufactured at competitive costs with quick lead times. Our capabilities include 71 plastic injection molding machines in China ranging in size from 25 tons to 1,600 tons.

PCB Board Production

PCB production and assembly lines are equipped for both surface mount and thru-hole technologies.

Wire Harnessing

An experienced R&D Team with over 19 years of experience in designing cable assemblies ranging from simple to complex to fit the production needs of our customers.

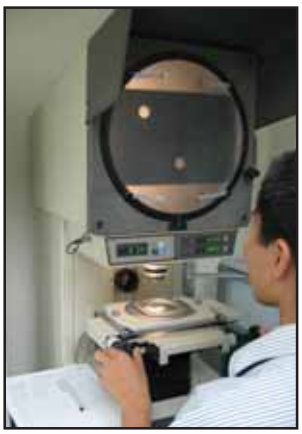
From initial design, sampling and mass production quality is the focus to provide you with the best competitive solution.

Assembly

Extensive knowledge in project related manufacturing, precision OEM products and sub-assemblies for various applications and industries. We can take your proprietary designs and put them into production. Included in the assembly process is custom decorating and printing on products. Three Tampo print machines allow decorative designs to be placed on plastic products.

Quality and Testing

Quality control and assurance is a key focus with 30 trained technicians. Every step of the production process is monitored to assure product reliability.



SUZO-HAPP GROUP
Worldwide Locations

USA

SUZO-HAPP GROUP Locations in USA:
106 Garlisch Drive, Elk Grove, IL 60007
2015 Helm Road, Las Vegas, NV 89119
7390 Eastgate Road, Suite 160, Henderson, NV 89011
9549 Penn Ave, South, Bloomington, MN 55431
N59 W16600 Greenway Circle, Unit B, Menomonee Falls, WI 53051

Phone: (888) 289-4277
Fax: (800) 593-4277
e-mail: info@suzohapp.com

EUROPE

SUZO-HAPP GROUP (NL) BV
Antonie Van Leeuwenhoekstraat 9
3261 LT Oud-Beijerland-The Netherlands

Phone: (+31) 186 64 33 33
Fax: (+31) 186 64 33 22
e-mail: sales@suzo.com

SUZO-HAPP GROUP (UK) ltd
Unit 5, Industrial Estate Leigh Close
GB KT3 3NF New Malden, Surrey-UK

Phone: (+44) 208 336 1300
Fax: (+44) 208 336 1490
e-mail: sales@suzo.co.uk

SUZO-HAPP GROUP (D) GMBH
AACHENER STRASS 122
D 52477 ALSDORF-HOENGEN-GERMANY

Phone: (+49) 2404 98 680
Fax: (+49) 2404 98 68 68
e-mail: sales@suzo.de

SUZO-HAPP GROUP Sp. zo.o
Ul. Brzozowa 5
64-320 Niepŕuszewo, Polska

Phone: (+48) 61 8948 682
Fax: (+48) 61 8948 681
e-mail: info@suzohapp.eu

SUZO-HAPP GROUP Technical Components Spain, S.A.U.
Avda. Somosierra, 22
Pol. INBISA I 11C
28700 San Sebastian de los Reyes. Madrid.

Phone: (+91) 654 62 03
Fax: (+91) 654 62 03

SOUTH AMERICA

SUZO-HAPP GROUP AMERICAS (AR) S.R.L.
Tte.Cnel.Besares 4693
(C143OCII)-Buenos Aires-Rep. Argentina

Phone/Fax: +54-11-4546-0588
e-mail: info@suzo-americas.com

SUZO-HAPP GROUP DO BRASIL Ltda
Av. Santos Dumont 6760
89226-470 Joinville-SC-Brasil

Phone/Fax: +55-47-4674871
e-mail: info@stccomponentes.com.br

ASIA

SUZO-HAPP GROUP
China Production Facility
9 Airport North Road
Gold Coast District
San Zhao Zhuhai, China 519040

SUZO-HAPP GROUP
Hong Kong Office
809-810, Block A, Hoi Luen Ind. Centre
55, Hoi Yuen Road, Kwun Tong
Kowloon, Hong Kong

SUZO HAPP
GAMING, AMUSEMENT AND INDUSTRIAL COMPONENTS
suzohapp.com

GO GREEN
The Road to Green Starts with
SUZO HAPP
LIGHTING
Pages
243-259
TOOLS
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MONITORS
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ELECTRICAL
SUPPLIES
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ACCESSORIES
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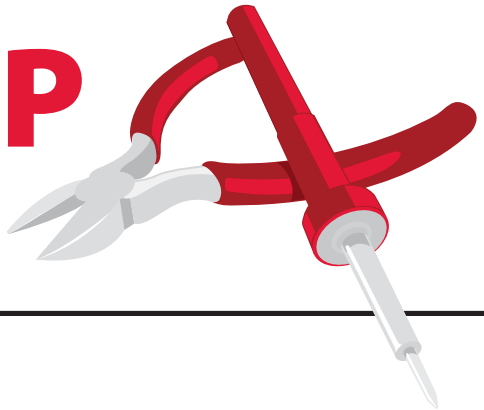
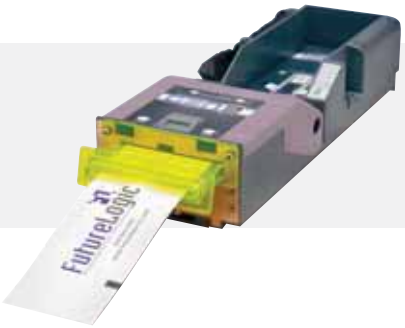
Visit these catalog sections
and look for the Go Green Symbol:
GO GREEN
It represents all of the parts that
Save Energy & Save Money
Also look for these products on our website: suzohapp.com

SUZO HAPP Service Centers



Bill Validators

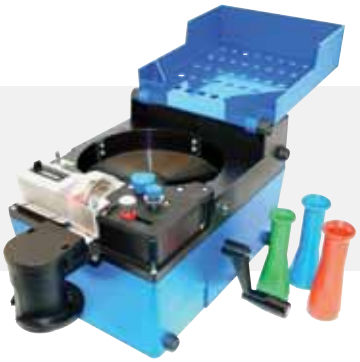
Reel Mechs



Ticket Printers

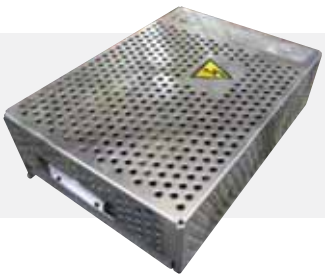
Plasma Displays

LCD Monitors



Coin Counters

Game Boards



Power Supplies

CRT Monitors

SUZO-HAPP GROUP

Service Centers

Warranty Repair Service

Las Vegas

2015 Helm Drive
Las Vegas, NV 89119
Toll Free Phone: (866) 736-2374
Local Phone: (702) 597- 4840
Fax: (702) 597-5360
Email: service@suzohapp.com

Bill Validators
- MEI SC Series Cashflow
- MEI Series 2000
- MEI ZT Series
- MEI Bulk Note Feeder (BNF)

Coin Counters
- SUZO-HAPP

Game Devices
- Starpoint

Monitors
- CERONIX LCD
- CERONIX CRT
- Kortek LCD
- Kortek CRT
- Kortek Plasma
- Kortek Digital Information Displays (DID)
- SUZO-HAPP Vision Pro CRT
- SUZO-HAPP Vision Pro LCD

Printers
- FutureLogic Gen 1
- FutureLogic Gen 2
- FutureLogic Gen 2 Universal

Reel Mechs
- Starpoint

Chicago

106 Garlisch Drive
Elk Grove, IL 60007
Toll Free Phone: (888) 289-4277
Local Phone: (847) 593-6161
Toll Free Fax: (800) 592-3030
Email: service@suzohapp.com

Bill Validators
- MEI Series 2000
- MEI SC Series Cashflow
- MEI Bulk Note Feeder (BNF)

Game Devices
- Starpoint

Midway/Atari Games
- Game Boards and Hard Drives 1995 and newer, both electronic related and operator questions (settings, failure codes, etc.)
- Eproms available for most Midway/Atari Video Games
- No Pinball Repairs
- For all other game boards call service center for repair details

Monitors
- CERONIX LCD
- Kortek CRT
- Kortek LCD
- Makvision CRT
- Makvision LCD
- SUZO-HAPP Vision Pro CRT
- SUZO-HAPP Vision Pro LCD

Reel Mechs
- Starpoint

New Jersey

2547 Fire Road Unit I 9
Egg Harbor TWP, NJ 08234
Toll Free Phone: (866) 736-2374
Local Phone: (702) 597-4840
Fax: (702) 597-5360
Email: service@suzohapp.com

Bill Validators
- MEI SC Series Cashflow
- MEI Bulk Note Feeder (BNF)

Printers
- FutureLogic Gen 1
- FutureLogic Gen 2
- FutureLogic Gen 2 Universal

Monitors
- CERONIX LCD
- Kortek LCD
- Kortek Digital Information Displays (DID)
- SUZO-HAPP Vision Pro LCD

Puerto Rico

112 Ashford Avenue Suite 2B
San Juan, PR 00907
Toll Free Phone: (866) 736-2374
Phone: (702) 597-4840
Fax: (702) 597-5360
Email: service@suzohapp.com

Bill Validators
- MEI SC Series Cashflow

Monitors
- Kortek LCD
- Kortek Digital Information Displays (DID)

Printers
- FutureLogic Gen 1
- FutureLogic Gen 2
- FutureLogic Gen 2 Universal

Note: Please phone, fax or email customer service at one of the numbers listed above for an RMA form and number. In order to properly handle your repair, your return must have an RMA number on it.

SUZO-HAPP GROUP

Service Centers

Repair Service / Out of Warranty Repairs

Las Vegas

2015 Helm Drive
Las Vegas, NV 89119
Toll Free Phone: (866) 736-2374
Local Phone: (702) 597- 4840
Fax: (702) 597-5360
Email: service@suzohapp.com

Bill Validators
- MEI SC Series Cashflow
- MEI Cashflow 7000
- MEI Series 2000
- MEI ZT Series
- MEI Bulk Note Feeder (BNF)
- MEI Series 3000

Coin Counters
- SUZO-HAPP

Game Devices
- Starpoint

Monitors
- CERONIX LCD
- CERONIX CRT
- Kortek LCD
- Kortek CRT
- Kortek Plasma
- Kortek Digital Information Displays (DID)
- SUZO-HAPP Vision Pro CRT
- SUZO-HAPP Vision Pro LCD
- Tovis CRT
- Tatung CRT
- Wells Gardner CRT

Power Supplies
- IGT Game King
- Aristocrat

Printers
- FutureLogic Gen 1
- FutureLogic Gen 2
- FutureLogic Gen 2 Universal
- FutureLogic Daughter Boards

Reel Mechs
- Starpoint

Chicago

106 Garlisch Drive
Elk Grove, IL 60007
Toll Free Phone: (888) 289-4277
Local Phone: (847) 593-6161
Toll Free Fax: (800) 592-3030
Email: service@suzohapp.com

Bill Validators
- MEI Series 2000
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- No Pinball Repairs
- For all other game boards call service center for repair details

Monitors
- CERONIX LCD
- Kortek CRT
- Kortek LCD
- Makvision CRT
- Makvision LCD
- SUZO-HAPP Vision Pro CRT
- SUZO-HAPP Vision Pro LCD

Reel Mechs
- Starpoint

TouchTunes Devices
- General Touch LCD
- MJS Computer

New Jersey

2547 Fire Road Unit I 9
Egg Harbor TWP, NJ 08234
Toll Free Phone: (866) 736-2374
Local Phone: (702) 597-4840
Fax: (702) 597-5360
Email: service@suzohapp.com

Bill Validators
- MEI SC Series Cashflow
- MEI Cashflow 7000
- MEI Bulk Note Feeder (BNF)
- MEI ZT Series

Printers
- FutureLogic Gen 1
- FutureLogic Gen 2
- FutureLogic Gen 2 Universal

Monitors
- CERONIX LCD
- Kortek LCD
- Kortek Digital Information Displays (DID)
- SUZO-HAPP Vision Pro LCD

Puerto Rico

112 Ashford Avenue Suite 2B
San Juan, PR 00907
Toll Free Phone: (866) 736-2374
Phone: (702) 597-4840
Fax: (702) 597-5360
Email: service@suzohapp.com

Bill Validators
- MEI SC Series Cashflow
- MEI Cashflow 7000

Printers
- FutureLogic Gen 1
- FutureLogic Gen 2
- FutureLogic Gen 2 Universal

Monitors
- Kortek LCD
- Kortek Digital Information Displays (DID)

Note: Please phone, fax or email customer service at one of the numbers listed above for an RMA form and number. In order to properly handle your repair, your return must have an RMA number on it.

SUZO-HAPP GROUP

Service Centers

Monitor Repair Service

- Kortek, Ceronix, Vision Pro and MakVision Authorized service center
- Also repair Wells Gardner, Tatung and Neotec
- Monitors repair includes burn-in test, touch calibration and bench test
- Factory trained technicians with over 30 years hands-on experience
- 5-day quick turnaround from receipt (in most cases)
- 180-day warranty on LCDs
- 90-day warranty on CRTs

CRT and Chassis up to 26”

Includes Kortek, Ceronix, Wells Gardner, Vision Pro, Neotec, and Makvision

Includes diagnostic testing, component replacement.
(excluding CRT tube, chassis, touchscreen, touchscreen controller)

CRT and Chassis 26” and Higher

Includes Kortek, Ceronix, Wells Gardner, Vision Pro, Neotec, and Makvision

Includes diagnostic testing, component replacement.
(excluding CRT tube, chassis, touchscreen, touchscreen controller)

LCDs up to 27"

Includes Kortek, Ceronix, Vision Pro, and Makvision

Includes diagnostic/ burn tests, touch calibration, and component/board replacement
Replacement parts extra if necessary

LCDs 27"and Higher

Includes Kortek, Ceronix, Vision Pro, and Makvision

Includes diagnostic/ burn tests, touch calibration, and component/board replacement
Replacement parts extra if necessary

LCD with PC

Includes Kortek 26" 32" 40" and 46" with PC and Touch Screen

Includes diagnostic/burn tests, touch calibration, and component/board/PC board replacement. Requires operating system key code and CD. Not responsible for replacement of customer content. Replacement parts extra if necessary

Note: Please phone, fax or email customer service at one of the numbers listed above for an RMA form and number. In order to properly handle your repair, your return must have an RMA number on it.

SUZO-HAPP GROUP

Service Centers

Bill Validator Repair Service

- Factory authorized service center for MEI bill validators
- All refurbished validators are completely disassembled and cleaned, worn or defective parts are replaced, and the unit is reassembled, calibrated and tested
- Factory trained technicians with over 30 years hands-on experience
- 6-month warranty
- 5-day turnaround time (in most cases)

Level I

Includes MEI Series 2000, MEI SC Series Cashbox and Chassis

Includes diagnostic testing, calibration, and cleaning. Replacement parts extra.
Software Update (Per customer request - download only no testing involved)

Level II

Includes MEI SC Series Cashflow, MEI ZT Series, and MEI Series 3000 RTU's

Includes diagnostic testing, calibration, and cleaning. Replacement parts extra.
Software Update (Per customer request - download and calibration only

SC Series Interface Board

Includes component replacement

Boards that can not be repaired will be returned at no charge

MEI Bulk Note Feeder (BNF)

Includes diagnostic testing, calibration and cleaning

Replacement parts extra.
Software Update (Per customer request - download only no testing involved)

Ticket Printer Repair

- Factory authorized service center for FutureLogic ticket printers
- Also repair other universal ticket printers
- All refurbished printers are completely disassembled and cleaned, worn or defective parts are replaced, and the unit is reassembled and tested
- Factory trained technicians with over 30 years hands-on experience
- 6-month warranty
- 5-day turnaround time (in most cases)

Includes Futurelogic Gen 1, Gen 2, and Gen 2 Universal

Includes diagnostic testing and cleaning. Replacement parts extra.

Software Update (Per customer request - download of software only)

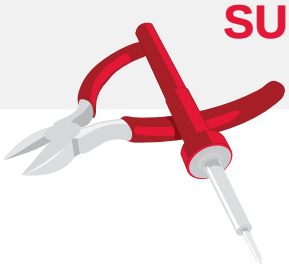
Gen 1 RS232 and Netplex Daughter Boards

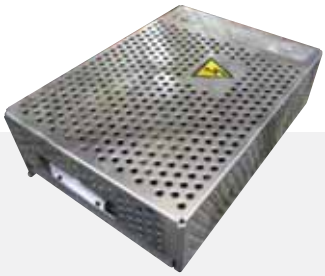
Includes component replacement

Note: Please phone, fax or email customer service at one of the numbers listed above for an RMA form and number. In order to properly handle your repair, your return must have an RMA number on it.

SUZO-HAPP GROUP

Service Centers





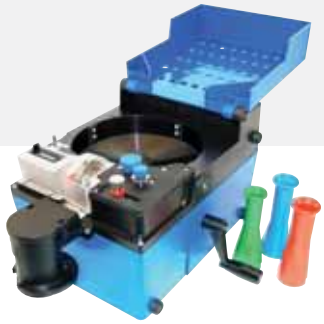
IGT and Aristocrat Power Supply Repair

- For IGT Game King and Aristocrat power supplies
- Flat rate includes parts and labor
- 6-month warranty
- 5-day turnaround (in most cases)

Part Number	Description and Ref. No.
40009003, 40009090	WP203F11, MCP-8011, CP-9826 IGT Game King Power Supply
431675	MK5PFC Aristocrat Power Supply

Suzo-Happ Coin Counter

- Repair your old coin counter
- All counters are tested
- Quick turnaround
- 1-year warranty
- Repair plus replacement parts available



Note: Please phone, fax or email customer service at one of the numbers listed above for an RMA form and number. In order to properly handle your repair, your return must have an RMA number on it.

RUN LIKE CLOCKWORK WITH MEI

Accuracy and reliability are two attributes of a Swiss watch. It is no coincidence those words also describe the MEI CASHFLOW® SC. Our products' unmatched security and acceptance is driven by Swiss recognition technology.

Time is money. Call 800-345-8215 to see how MEI's dedication to quality and innovation can improve your profitability.

mei®

www.meigroup.com

Proven performance. Increased profits.

MEI is ISO 9001:2000 certified.

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MEI CASHFLOW® SC SERIES BILL VALIDATOR
The New Standard For Gaming Note Acceptors

Bill Acceptor/Handling
- Superior acceptance and security
- Fast, reliable bill handling
- Lower cost of ownership – less downtime and maintenance
- Traffic light LEDs provide front-line at machine diagnostics
- USB port on the front, allows convenient interface for support tools
- Common acceptor module, regardless of the machine manufacturer
- Lensed receivers that scan 300% more bill surface with six wavelengths of light
- Highest ticket acceptance rates through custom bar-code sensor output
- 14 pending patents cover 30 unique design features in the unit

Cash box
- Industry's first dispute resolution window (to view last bill stacked)
- Curved surface to protect internal mechanisms, drive gears and secure cash
- Durable, welded plastic design
- One-hand, ergonomic handle for ease of use
- No latches or levers to operate

Acceptance Rate
- 98% or greater

Bill / Barcode Coupon Insertion
- Bills – up to 50 notes, four ways, face up & down
- Barcode Coupons – two way face up

Transaction Speed
- Approximately 3 seconds to stack

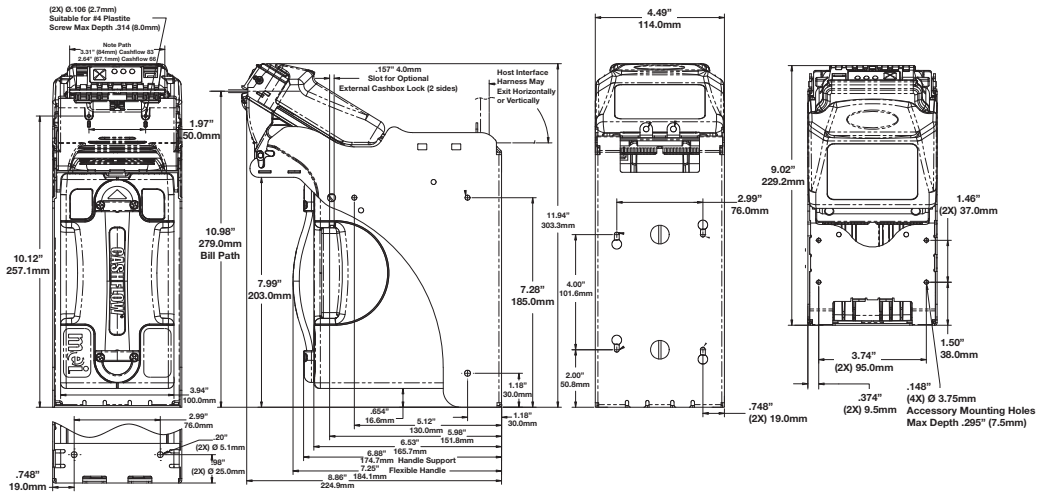
Escrow
- One bill or one barcode coupon

Interfaces
- Multiple serial protocols

Power Source & Consumption
- 12V – 28VDC
- Standby: 10 Watts
- Accepting: 30 Watts
- Stacking: 70 Watts

Shipping Weight
- SC Series - 9lbs. (4kg)
- SC Cash box - 3lbs. (1.5kg)

SC Series Cash- box Capacity
- Greater than 500 notes

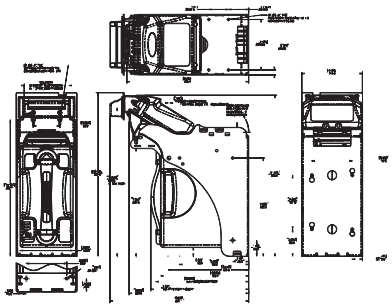


For Bill Validator Repair See our Service Center on Pages 18-23

Part Number	Model	Width	Currency	Manufacturer
62542590	SC6602	Fixed	U.S.	IGT
62545190	SC8302	Multi	Various	IGT
252005016	SC6604	Fixed	U.S.	Atronic, Bally (2005 & Older), Spielo
252001030	SC8304	Multi	Various	Atronic, Bally (2005 & Older), Spielo
252004020	SC6607	Fixed	U.S.	Aristocrat, Bally (2006 & Up), Konami, VGT, WMS
252009031P1	SC8307	Multi	Various	Aristocrat, Bally (2006 & Up), Konami, VGT, WMS
62575290P1	SC6602	Fixed	U.S.	IGT Easitrax Ready
252009053P1	SC6604	Fixed	U.S.	Atronic, Bally (2005 & Older), Spielo, Easitrax Ready
252003056P1	SC6607	Fixed	U.S.	Aristocrat, Bally (2006 & Up), Konami, VGT, WMS Easitrax Ready

MEI CASHFLOW® SC SERIES PRODUCT FEATURES

3) Custom Bar Code Reader
19) Bill Entry Guide & Power Mounting
21) Diagnostic LEDs
2) Lensed Receiver
17) Bill Path Release
4) 100Mhz DSP Processor
1) Light Bar
14) 14) Common Acceptor Modules
5) Early Bill Pick up
20) Configuration Button
22) USB Service Port
6) Smooth Sealed Bill Path
7) Direct Roller Drive
16) Acceptor Release Latch
15) PC Style Edge Connector Interface Cards
10) Short Bill Path
24) Passive Cash-box Latches
8) Ridges Mate with Acceptor
12) Recessed Plastic Gears
18) Dispute Resolution Window
24) Passive Cash-box Latches
9) 9) Internal Direct Roller Drive Elevator
11) 11) Durable Welded Plastic Exterior
23) Flexible Handle
13) 13) Dual Lock Capability



FEATURES KEY

- Acceptance & Security
- Bill Handling
- Cost of Ownership
- Ease of Use

THE MEI CASHFLOW® SC83 OPERATOR BENEFITS AT A GLANCE:

Benefit:	Features:
Increased revenue from exceptional bar code and secure bill acceptance	1 2 3 4
Increased revenue from processing worn and damaged currency	Above Plus 5 6 7 8 9 10
Reduced Cost of Ownership from:	
• Durable, Secure Cash-box	11 12 13
• Exceptional Jam Performance	5 6 7 8 9 10
• Minimal Preventative Maintenance	6 1 2 3
• Minimum Spares Holding	14 15
Easy to use because:	
• Easy to remove/open/clean acceptor	16 17 6
• Positively resolve bill disputes	18
• Mount/power bill entry guides w/o tools	19
• Configure unit on the floor	20
• Diagnose problems on the floor	21
• Quick to update software	22
• One-hand, ergonomic cash-box operation	23 24 11

MEI EASITRAX SOFT COUNT UPGRADE KITS

mei® EASITRAX®

New

Tracking Your Slots and Cash Just Got Easier

MEI EASITRAX Soft Count is a hardware and software solution that acts as an interface between the casino floor and the soft count allowing casinos to track assets and maximize control. Information collected in the bill validator is now easily accessible in a database that can be networked to multiple locations and be accessed to analyze slot performance.

MEI EASITRAX Soft Count is a faster and more efficient way to manage cash drops and evaluate data from slot machines.

RFID technology connects slot machine asset numbers to a specific cashbox. Casino operators can streamline the cash management process through:

- Easily retrofitting all existing MEI CASHFLOW SC systems with easy-to-install upgrade kits
- Integrating existing counter/sorter equipment to maximize efficiencies by minimizing system components
- Tracking the scheduled drops of all cashboxes providing a fast, efficient source to validate revenue and ensuring a more accurate collection process

EASITRAX Soft Count provides cost savings by:

- Eliminating the cost associated with searching for “hotboxes”
- Improving efficiencies within the drop process
- Avoiding jurisdictional fines due to out of date software
- Increasing labor efficiency in the soft count room
- Providing tools to maximize the casino layout
- Reducing the number of cashboxes because they no longer need to be dedicated.

Features

- Streamlined engineering
- Back room interface uses existing process / counting systems
- SQL database record storage
- Information accessibility
- Automated connection between slot and cashbox
- “Hot box” detection
- Validate drop
- Incremental accounting system

Advantages

- Easily retrofits to all existing MEI CASHFLOW SC systems; no batteries or wires
- Integrates with existing equipment
- Data repository for individual workstations or network
- Track performance, acceptance rate and note acceptor software revisions by machine
- Use of RFID eliminates writing and wanding
- Note acceptor will not enable live cashbox
- Automatically verify all boxes were collected and detect unexpected boxes
- Fast access to game revenue data; quickly resolve count variances

Benefits

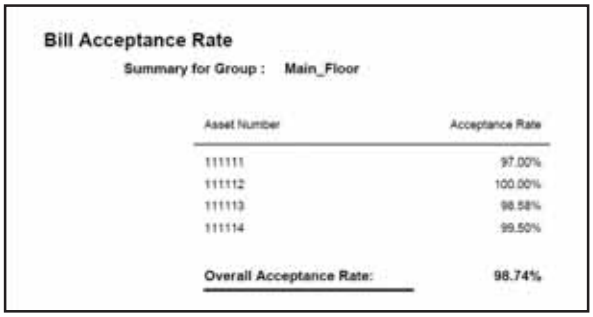
- Easy and efficient installation
- Flexibility to use any soft count equipment
- Database mining to analyze and improve operations
- Maximize operational efficiency and profitability
- Reduced drop team labor and increased accuracy
- Eliminate time and cost associated with “hot box” search
- Reduce variances and quickly locate errors by asset number
- Additional source for revenue validation

EASITRAX Soft Count Reports

Accessing data has never been faster – allowing operators to base decisions on several instant reports available.

Available Reports:

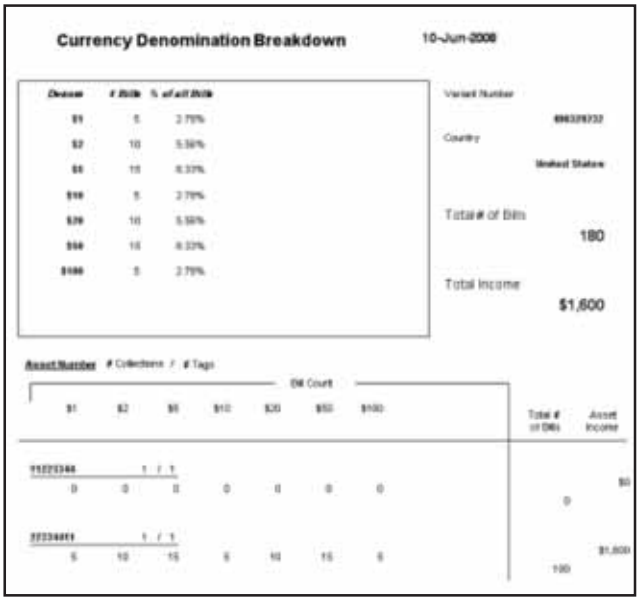
- Acceptance rate
- Cashbox full
- Currency report
- Drop status
- Jams
- Rejection types
- Version report



Bill Acceptance Rate

Summary for Group : Main_Floor

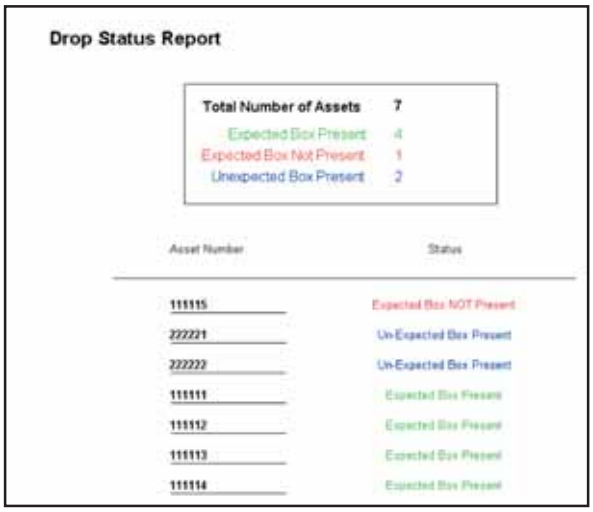
Asset Number	Acceptance Rate
111111	97.00%
111112	100.00%
111113	98.58%
111114	99.50%
Overall Acceptance Rate:	98.74%



Currency Denomination Breakdown 10-Jun-2008

Total # of Bills: 180

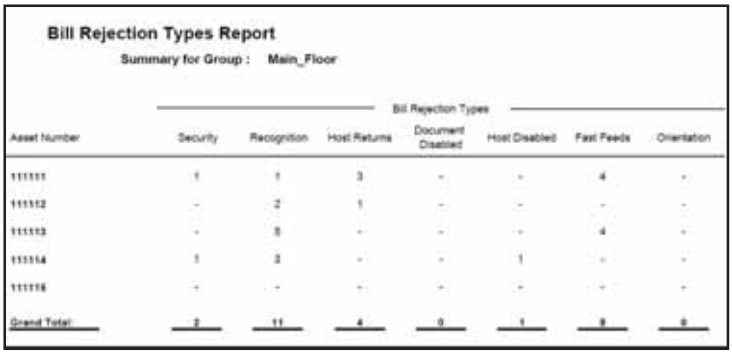
Total Income: $1,600



Drop Status Report

Total Number of Assets	7
Expected Box Present	4
Expected Box Not Present	1
Unexpected Box Present	2

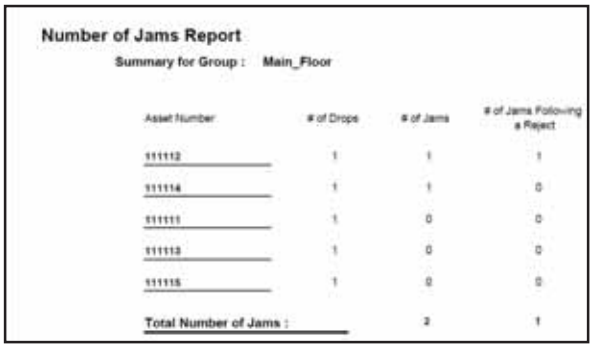
Asset Number	Status
111115	Expected Box NOT Present
222221	Un-Expected Box Present
222222	Un-Expected Box Present
111111	Expected Box Present
111112	Expected Box Present
111113	Expected Box Present
111114	Expected Box Present



Bill Rejection Types Report

Summary for Group : Main_Floor

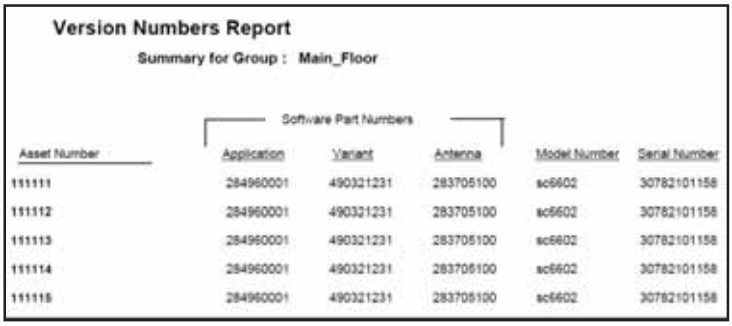
Asset Number	Security	Recognition	Host Returns	Document Disabled	Host Disabled	Fast Feeds	Orientation
111111	1	1	3	-	-	4	-
111112	-	2	1	-	-	-	-
111113	-	5	-	-	-	4	-
111114	1	3	-	-	1	-	-
111115	-	-	-	-	-	-	-
Grand Total:	2	11	4	0	1	8	0



Number of Jams Report

Summary for Group : Main_Floor

Asset Number	# of Drops	# of Jams	# of Jams Following a Reject
111112	1	1	1
111114	1	1	0
111111	1	0	0
111113	1	0	0
111115	1	0	0
Total Number of Jams :		2	1



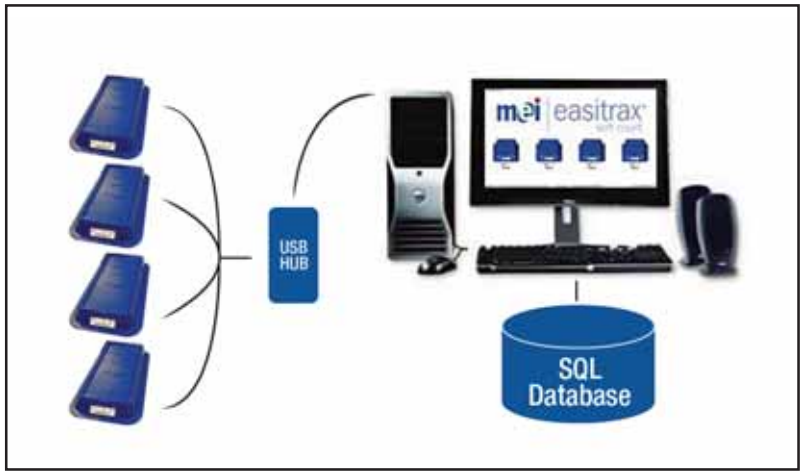
Version Numbers Report

Summary for Group : Main_Floor

Asset Number	Software Part Numbers: Application	Variant	Antenna	Model Number	Serial Number
111111	284960001	490321231	283705100	sc6602	30782101158
111112	284960001	490321231	283705100	sc6602	30782101158
111113	284960001	490321231	283705100	sc6602	30782101158
111114	284960001	490321231	283705100	sc6602	30782101158
111115	284960001	490321231	283705100	sc6602	30782101158

mei EASITRAX®

New



How It Works

Antenna Board

EASITRAX Soft Count Installation

The EASITRAX Soft Count system has been designed to be easily retrofitted to the CASHFLOW SC bill validator. Building a comprehensive cash management solution is as simple as applying these basic components:

- Placing an antenna board to the CASHFLOW SC interface board
- Applying RFID tags into the cashbox to allow information to be transmitted
- Tying EASITRAX reader bases (up to four) into a soft count room system that includes a USB hub and a computer
- Installing software that creates a SQL database and loads available reports

Hardware installation is a snap – only a screwdriver is needed:

1) Mount the antenna board to the interface PCB
2) Apply the FCC ID label to the chassis
3) Mount the RFID tag to the pusher plate
4) Apply the EASITRAX label to the cashbox

Reader Base

RFID Enabled Cashbox

Part Number	Description
42-1541-00	MEI EASITRAX Upgrade Kit
	Includes: 10 Antenna Boards, 10 RFID Tags, 10 Standoffs, 10 Labels, 10 FCC ID Labels, 10 Alcohol Wipes, 30 Standoffs, 60 Plastic Screws and 10 Ferrites
62549890P10	MEI EASITRAX RFID Tag Kit
	Includes: 10 RFID Tags and 10 Labels
252066165	MEI EASITRAX Soft Count Kit
	Includes: 2 Software CDs and 2 Reader Bases
50086190P12	MEI EASITRAX Spare Cashbox Kit
	Includes: 12 Cashboxes, 12 RFID Tags and 12 Labels
252060141	MEI EASITRAX Reader Base

IGT UPGRADE KITS

WBA / ZT TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007074	6007074E	IGT Vision/S2000 U/R Upgrade Kit
6007075	6007075E	IGT Game King+ 19" U/R Upgrade Kit
6007076	6007076E	IGT Game King 13"/17" Upgrade Kit
6007077	6007077E	IGT S/T(LXS) Upgrade Kit
6007078	6007078E	IGT Flat Top (Bar Top) Upgrade Kit
6006012	6006012E	IGT Trim Line Upgrade Kit

ARISTOCRAT UPGRADE KITS

WBA TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007042	6007042E	Aristocrat Mark VI Video U/R Upgrade Kit
6007043	6007043E	Aristocrat Mark VI Video S/T Upgrade Kit
6007044	6007044E	Aristocrat Stepper Upgrade Kit
6007113	6007113E	Aristocrat Crown Slant Upgrade Kit

ZT TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007050	6007050E	Aristocrat Mark VI Video U/R Upgrade Kit
6007051	6007051E	Aristocrat Mark VI Video S/T Upgrade Kit
6007052	6007052E	Aristocrat Stepper Upgrade Kit
6007054	6007054E	Aristocrat Mark VI Video UR Upgrade Kit with Missouri Lock
* Rivets not included with kits		

WMS UPGRADE KITS

WBA TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007066	6007066E	WMS Blue Bird Video U/R Upgrade Kit
6007067	6007067E	WMS Blue Bird Video S/T Upgrade Kit

ZT TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007070	6007070E	WMS Blue Bird Video U/R Upgrade Kit
6007071	6007071E	WMS Blue Bird Video S/T Upgrade Kit

ATRONIC UPGRADE KITS

WBA TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007084	6007084E	Atronic eMotion Upgrade Kit

AINSWORTH UPGRADE KITS

WBA TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007108	6007108E	Ainsworth Upgrade Kit

WESTERN MONEY SYSTEMS UPGRADE KITS

WBA TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007112	-	Western Money Systems Upgrade Kit

UPGRADE KITS

- Kits include all necessary hardware (i.e. bezels, screws, etc.)
- Re-use of existing hardware may be required
- 3 year limited warranty
- Kits designated with "E" are EASITRAX Ready

SPIELO UPGRADE KITS

WBA TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007107	6007107E	Spielo Upgrade Kit

BALLY UPGRADE KITS

ZT TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007024	6007024E	Bally V7200 U/R Upgrade Kit with $1-$100 Bill Entry Decal
6007025	6007025E	Bally V7200 U/R Upgrade Kit with $5-$100 Bill Entry Decal
6007026	6007026E	Bally S6000 U/R Upgrade Kit with $1-$100 Bill Entry Decal *
6007027	6007027E	Bally S6000 U/R Upgrade Kit with $5-$100 Bill Entry Decal *
6007028	6007028E	Bally SDG U/R Video Upgrade Kit
6007029	6007029E	Bally SDG Alpha Upgrade Kit
6007030	6007030E	Bally V7200 S/T Upgrade Kit
6007031	6007031E	Bally S6000 S/T Upgrade Kit *
6007032	6007032E	Bally SDG S/T Upgrade Kit
* Note, 66BUS410 software required		

WBA TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007000	6007000E	Bally EVO V8700 U/R Upgrade Kit with $1-$100 Bill Entry Decal
6007001	6007001E	Bally EVO V8700 U/R Upgrade Kit with $5-$100 Bill Entry Decal
6007002	6007002E	Bally V7200 U/R Upgrade Kit with $1-$100 Bill Entry Decal
6007003	6007003E	Bally V7200 U/R Upgrade Kit with $5-$100 Bill Entry Decal
6007004	6007004E	Bally 6000 U/R Upgrade Kit with $1-$100 Bill Entry Decal *
6007005	6007005E	Bally 6000 U/R Upgrade Kit with $5-$100 Bill Entry Decal *
6007006	6007006E	Bally SDG Video U/R Upgrade Kit
6007007	6007007E	Bally SDG Alpha Upgrade Kit
6007008	6007008E	Bally EVO V8700 S/T Upgrade Kit
6007009	6007009E	Bally V7200 S/T Upgrade Kit
6007010	6007010E	Bally S6000 S/T Upgrade Kit *
6007011	6007011E	Bally SDG S/T Upgrade Kit
6007103	6007103E	Bally SDG ALPHA C9000 Upgrade Kit
6007104	6007104E	Bally SDG ALPHA M9000 Upgrade Kit
6007105	6007105E	Bally SDG ALPHA S9000 Upgrade Kit
6007106	6007106E	VSL200 Bally Slim Line Upgrade Kit
* Note, 66BUS410 software required		

KONAMI UPGRADE KITS

WBA TO CASHFLOW		
Standard Kit	EASITRAX Ready	
Part Number	Part Number	Description
6007058	6007058E	Konami Video U/R Upgrade Kit
6007059	6007059E	Konami Stepper Upgrade Kit
6007111	6007111E	Konami Advantage Upgrade Kit

MEI CASHFLOW SC66 TEST STAND

- The CashFlow SC66 Test Stand provides the operator a test fixture to perform diagnostics on the acceptor module, interface card, and cashbox
- Built-in power supply allow you to simply plug in and begin testing
- Interface optional Windows-based STS Support Tool Software with USB cable (252069074) not included see below.
- Kit Includes:

1) CashFlow SC66 Operations and Maintenance Manual
2) Power Supply
3) SC6602 Chassis
4) Interface Card
5) Cashbox
6) Power Cable
7) IGT bill acceptor extension cable (to attach test stand to IGT tester or slot machine)
8) Metal stand USB Cable

Part Number	Description
6006001	MEI Cashflow SC66 Test Stand

MEI CASHFLOW STS SUPPORT TOOL

- STS supports a full range of configuration and software update functions with easy-to-use software and handheld tools, performance management and reporting, and modular product repair.
- Fast and easy updates in your MEI field base for currency data configuration data software
- Monitor performance of your MEI units*
- Diagnostics for modular repair with minimum spares
- Collects and reports audit data*
- Interfaces/controls MEI CASHFLOW™ programming module
- Recommended system configuration:

Processor: Intel Pentium II (200Mhz or higher recommended); RAM: 128 MB or greater;

Fixed Disk Storage: 36 MB before installation and 16 MB after installation.

Monitor: Super VGA at 800 x 600 resolution with 256 colors or greater.

Required Software: Microsoft Windows SE, Windows Me, Windows 2000, or Windows XP operating systems, and Internet Explorer 6.

Part Number	Description
252069074	MEI CashFlow STS Support Tool

MEI CashFlow Replacement Parts

MEI CASHFLOW BEZEL

- 66mm
- Ref. No. 25206301

Part Number	Description
252063016	MEI CashFlow Bezel

MEI CASHFLOW IGT LXS GREEN BEZEL

- Ref. No. 58144603P15

Part Number	Description
58144603P15	MEI CashFlow IGT LXS Green Bezel

MEI CASHFLOW SC66 UNIVERSAL BEZEL

- Ref. No. 252067014

Part Number	Description
252067014	MEI CashFlow SC66 Universal Bezel

MEI CASHFLOW IGT FLAT BARTOP BEZEL

- Ref. No. 58144590P30

Part Number	Description
58144590P30	MEI CashFlow IGT Flat Bartop Bezel

OMRON SWITCH FOR MEI CASHFLOW

New

- Used on the MEI Cashflow interface PCB
- 5 amp, 125 VAC switch with PC mount legs

Part Number	Description
SS-5G21D-12	Omron Switch for MEI Cashflow

CASHFLOW COLORED HANDLES

- Orange Ref. No. 252022306
- Blue Ref. No. 252024305
- Green Ref. No. 252026304

Part Number	Description
252022306	Orange Handle
252024305	Blue Handle
252026304	Green Handle

MEI CashFlow Replacement Parts

MEI EASITRAX CASHCAN

New

- RFID enabled
- Ref. No. 50086190P1

Part Number	Description
50086190P1	MEI EASITRAX Cashcan

MEI CASHFLOW CASHCAN

- Ref. No. 50043690P12

Part Number	Description
50043690P12	MEI CashFlow Cashcan

MEI CASHFLOW SC66 PORTABLE PROGRAMMING MODULE (PPM)

- The CashFlow Portable Programming Module (PPM) provides the capability to flash download Cashflow SC66XX / SC83XX bill acceptors
- Requires the purchase of SC66XX or SC83XX program files, STS Software program is required to program the PPM's or they can be programmed by AESI for $15 per unit. Please specify software version required at time of purchase if you require the PPM to be pre-programmed
- Kit Includes:

1) Portable Programming Module (PPM)
2) USB Interface Cable
3) 2 "AA" Batteries For The PPM's
4) 1 Led Indicator Card

Part Number	Description
760591001	MEI CashFlow SC66 Programming Module

MEI CASHFLOW SC66XX RTU GENERIC ASSEMBLY

- Ref. No. 252014091P1

Part Number	Description
252014091P1	MEI CashFlow SC66XX RTU Generic Assembly

CASHFLOW BEZEL LABEL

- Ref. No. 252054019P

Part Number	Description
252054019P	CashFlow Bezel Label

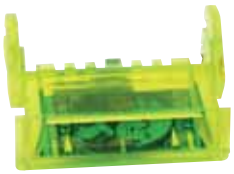
CASHFLOW IGT S2000 BEZEL

- 66mm
- Ref. No. 58144290P30

Part Number	Description
58144290P30	CashFlow IGT S2000 Bezel

MEI CASHFLOW UPRIGHT BEZEL

- Ref. No. 58146290P30



Part Number	Description
58146290P30	MEI CashFlow Upright Bezel

MEI CASHFLOW INTERFACE PCB EBDS

- 2 switch
- Ref. No. 252016090P1

Part Number	Description
252016090P1	MEI CashFlow Interface PCB EBDS

Evolution
in gaming printers

Ready for Promotional Couponing and Server-Based Games

Over 1,000,000 TITO Printers Shipped Worldwide

50% More Standard Ticket Capacity Saves $200/Printer Annually

ITH® Virtually Eliminates Ticket Jams

FutureLogic®
group of companies

futurelogicinc.com

FUTURELOGIC GEN2™ PRINTER

For Printer Repair
See our Service Center on Pages 18-23

The GEN2™ printer, the second generation TITO printer by FutureLogic, builds on the exceptional success of the industry's first and most copied cashless ticket printer, the PSA-66-ST. While maintaining the robustness and reliability of its predecessor, as the most decorated only award-winning printer in gaming, the GEN2 printer offers improvements such as ITH® (Intelligent Ticket Handling), IntelligentBezel™ system, ProColor™ printing, and more.

The ITH® technology sets the printer apart from competing TITO printers by making the "cashout ticket" available ONLY after the ticket is fully printed internally and automatically burst. To improve the printer's reliability further, the IntelligentBezel feature detects for obstruction near the bezel and reduces paper jams, by waiting for a clear path before a ticket is ejected.

In addition to the game port (RS232) a separate port is provided for convenient firmware upgrades without the need to remove the printer from the slot machine.

Features:

- *ITH® (Intelligent Ticket Handling) Patent-Pending*
  Ticket Available ONLY after Fully Printed Internally & Automatically Burst
- *Large Paper Capacity*
  50% More Capacity Saves $200/Printer Annually
- *IntelligentBezel™ System*
  Paper Jam Reduction via Blocked Bezel Detection
- *Award-Winning Printer*
  Most Decorated Printer in Gaming
- *Superior Electro-Mechanical Design*
  High Reliability and Easy Maintenance
- *ProColor™ Printing*
  Readily Available 2-Color Printing Technology
- *Expanded Graphics Memory*
  Stores Hundreds of Clip Art Objects and Thousands of Graphic Templates
- *Hot Swappable*
  Printer Removal Without Powering Down

For more information, please contact your sales representative.

Part Number	Description
220-00016	FutureLogic GEN I RS232 Printer
220-00036-300	FutureLogic GEN2 RS232 Printer, 12 Pin
220-00037-300	FutureLogic GEN2 RS232 Printer, 14 Pin

FUTURE LOGIC GEN2 UNIVERSAL™ PRINTER

New

The GEN2 Universal™ family of printers build on the technology that has made FutureLogic the leading manufacturer of TITO ticket printers for cashless gaming. Developed with design feedback from global gaming OEMs and casinos, GEN2 Universal printers are compatible with existing gaming platforms (RS232 and NetPlex) as well as the next generation of USB games.

The GEN2 Universal printers anticipate new GSA standards for downloadable games, are IGT compliant and permit in-game firmware updates via the USB communications port. In addition to the interoperability and ease of integration required for the next generation of electronic games, GEN2 Universal printers offer compatibility with existing games on your floor, allowing you to specify a single printer for your entire property.

Features:

- *Universal Communications*
  3 Ports to Support All Game Types
  - USB 2.0 Full Speed (Future GSA Compliant, IGT Compliant)
  - RS232 Port (Backward Compatible)
  - NetPlex Port (Backward Compatible)
- *ITH® (Intelligent Ticket Handling)*
  Makes Ticket Available ONLY after Fully Printed Internally & Automatically Burst
- *Large Paper Capacity*
  50% More Capacity Saves $200/Printer Annually
- *IntelligentBezel™ System*
  Paper Jam Reduction via Blocked Bezel Detection
- *Award-Winning Printer*
  Most Decorated Printer in Gaming
- *Superior Electro-Mechanical Design*
  High Reliability and Easy Maintenance
- *ProColor™ Printing*
  Readily Available 2-Color Printing Technology
- *Expanded Graphics Memory*
  Stores Hundreds of Clip Art Objects and Thousands of Graphic Templates
- *Hot Swappable*
  Printer Removal Without Powering Down

Part Number	Description
220-00086-300	Gen2 Universal™ Printer

FUTURELOGIC GEN2 VST® PRINTER

The vertical configuration of the GEN2 VST® TITO printer is compact and is specifically designed for space-saving slim-top gaming machines. Like the GEN2™ printer, the GEN2 VST® printer offers improvements such as ITH™ (Intelligent Ticket Handling), Intelligent Bezel™ System, ProColor™ printing, and more.

The ITH® technology sets the printer apart from competing TITIO printers by making the "cashout ticket" available **ONLY** after the ticket is fully printed internally and automatically burst. To improve the printer's reliability further, the IntelligentBezel™ feature detects for obstruction near the bezel and reduces paper jams, by waiting for a clear path before a ticket is ejected.

In addition to the game port (RS232 or NetPlex), a separate port is provided for convenient firmware upgrades without the need to remove the printer from the slot machine.

Features:

- *ITH® (Intelligent Ticket Handling)*
  Makes Ticket Available ONLY after Fully Printed Internally & Automatically Burst
- *IntelligentBezel™ System*
  Paper Jam Reduction via Blocked Bezel Detection
- *Award-Winning Printer*
  Most Decorated Printer in Gaming
- *Superior Electro-Mechanical Design*
  High Reliability and Easy Maintenance
- *ProColor™ Printing*
  Readily Available 2-Color Printing Technology
- *Expanded Graphics Memory*
  Stores Hundreds of Clip Art Objects and Thousands of Graphic Templates
- *Hot Swappable*
  Printer Removal Without Powering Down

For more information, please contact your sales representative.

Part Number	Description
220-00042-100	FutureLogic GEN2 VST® RS232 Printer

FUTURELOGIC GEN2 VST UNIVERSAL™ PRINTER

New

The vertical configuration of the GEN2 VST Universal™ TITO printer is designed for space-saving slim-top gaming machines. Developed with design feedback from global gaming OEMs and casinos, GEN2 VST Universal printers are compatible with existing gaming platforms (RS232 and NetPlex) as well as the next generation of USB games.

The GEN2 VST Universal printers anticipate new GSA standards for downloadable games, are IGT compliant and permit in-game firmware updates via the USB communications port.

In addition to the interoperability and ease of integration required for the next generation of electronic games, the GEN2 VST Universal printers offer compatibility with existing games on your floor, allowing you to specify a single printer for your entire property.

Features:

- *Universal Communications*
  3 Ports to Support All Game Types
  – USB 2.0 Full Speed (Future GSA Compliant, IGT Compliant)
  – RS232 Port (Backward Compatible)
  – NetPlex Port (Backward Compatible)
- *ITH™ (Intelligent Ticket Handling)*
  Makes Ticket Available ONLY after Fully Printed Internally & Automatically Burst
- *IntelligentBezel™ System*
  Paper Jam Reduction via Blocked Bezel Detection
- *Award-Winning Printer*
  Most Decorated Printer in Gaming
- *Superior Electro-Mechanical Design*
  High Reliability and Easy Maintenance
- *ProColor™ Printing*
  Readily Available 2-Color Printing Technology
- *Expanded Graphics Memory*
  Stores Hundreds of Clip Art Objects and Thousands of Graphic Templates
- *Hot Swappable*
  Printer Removal Without Powering Down

For more information, please contact your sales representative.

Part Number	Description
220-00049-101	FutureLogic GEN 2 VST Universal Printer

FUTURELOGIC ECLIPSE™ LOTTERY AND KIOSK PRINTER

New

COMING SOON

FutureLogic group of companies

eclipse™ ADVANCED TRANSACTION ENGINE

ISO 9001 CE RoHS

Finally there is a heavy-duty thermal printer that delivers both high-speed and wide-temperature range operation. Introducing the Eclipse™ advanced transaction engine from FutureLogic. It is the perfect printer for the latest generation of lottery and kiosk applications.

Along with the industry's best throughput of 200 mm/second and operating temperature range of -30°C to +60°C to handle the harshest environments, the Eclipse offers special features to enhance its performance and reliability.

To provide optimum security, Eclipse's high speed and rugged presenter features an "eject and retract" technology that allows for storage of unclaimed receipts in an auxiliary tray.

To assure system reliability, the Eclipse IntelligentBezel™ system, virtually eliminates paper jams by initiating multiple attempts to present the receipt in the event the bezel is inadvertently blocked.

The Eclipse advanced transaction engine offers a high-capacity, multi-position/multi-length arm that can accommodate 80 mm or 82.5 mm paper rolls of up to 250 mm in diameter.

The new Eclipse printers offer superior performance, ruggedness and security in a compact, space-saving package with both Serial and USB data connections. It clearly eclipses the field.

Features:

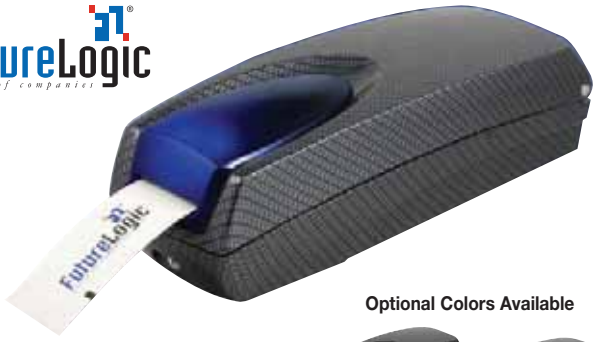
- *Secure and Rugged*
  Retractable Ticket Presenter
  -30°C to +60°C Operating Temperature Range
- *IntelligentBezel™ System*
  Paper Jam Reduction via Blocked Bezel Detection
- *High Performance*
  200 mm/sec Print Speed
  625 mm/sec Presenter Speed
- *Flexible*
  Supports Paper Rolls Up to 250 mm O.D.
  Multi-Position Paper Roller Arm
  Multiple Font Sizes and Languages
- *Dual Communications*
  USB & Serial Communications
- *Certifications*
  ISO 9001, CE Certified, RoHS
- *Worldwide Service & Support*
  Reliable and Responsive Service in Asia, Australia, Europe, North & South America, and Russia

For more information, please contact your sales representative.

FUTURELOGIC COUPONXPRESS™ PRINTER

New

FutureLogic group of companies



Optional Colors Available

CouponXpress™ desktop tito/coupon printer

CouponXpress™ builds on the technology that has made FutureLogic the leading manufacturer of TITO printers – bringing all of the popular GEN2 Universal™ printer's features, functions and flexibility from the game to the cashier's cage, hotel front desk, unattended kiosks and other transaction points.

Compatible with traditional gaming protocols as well as new USB communications, CouponXpress enables fast, convenient TITO transactions, such as ticket purchases, consolidation, or replacement of torn or crumpled tickets. It can also be used to distribute targeted promotional coupons at different venues – such as at the concierge desk, gas station, gift shop, or hotel rooms – to reward, retain or recruit casino patrons.

Housed in an attractive and rugged cabinet, CouponXpress provides the convenience, flexibility and reliable performance needed for effective coupon campaigns. Fast 3.5 inch per second printing, large ticket storage capacity, and ITH® (Intelligent Ticket Handling) technology combine to maximize CouponXpress' uptime and reliability. Additionally, high-resolution two-color printing and storage for hundreds of clip art objects and thousands of graphic templates facilitates ticket customization and branding.

Features:

- *Universal Communications*
  Can be Configured to Handle 2 Communication Ports - USB and RS232 (Ethernet Optional)
- *Reliable Performance*
  ITH® (Intelligent Ticket Handling) technology virtually eliminates ticket jams by making ticket available only after it's been fully printed and burst
- *Superior Electro-Mechanical Design*
  High Reliability and Easy Maintenance
- *ProColor™ Printing*
  Exceptional 2-Color Imaging Technology
- *Fast Printing Speed*
  Prints and Presents in 2.2 Seconds
- *Large Fill Capacity*
  Stores up to 300 Tickets
- *Expanded Graphics Memory*
  Stores Hundreds of Clip Art Objects and Thousands of Graphic Templates

ISO 9001 CE RoHS

For more information, please contact your sales representative.

about FutureLogic group of companies

Founded in 1983 and headquartered in Glendale, California. FutureLogic designs and builds high-reliability electromechanical assembly solutions for nearly every printing need. As the undisputed leader in super-robust thermal printer technology, FutureLogic is the industry's premier supplier of thermal printers for casino gaming, promotional equipment, kiosk, industrial, RTAL, gas pumps and medical applications.

FutureLogic has shipped more than 1,000,000 gaming printers worldwide, which produce approximately four billion vouchers annually. In July 2004 the company founded FutureLogic Europe, Ltd. to provide direct sales and engineering support for the growing OEM thermal printer markets in Europe. In October 2006 FutureLogic expanded its global support network into the Asia Pacific market, with a new sales and service center in Macau, China.

More information on the company is available at www.futurelogic-inc.com

FUTURELOGIC GEN2 PRINT MECHANISM

- Ref. no. 400-00007-100

Part Number	Description	
400-00007-100	FutureLogic GEN2 Print Mechanism	
570-00007-100	FutureLogic GEN2 Print Mechanism, Refurbished	VALUE BUY

FUTURELOGIC GEN2 PRINTER BASE

- Ref. no. 370-00015-100

Part Number	Description
370-00015-100	FutureLogic GEN2 Printer Base

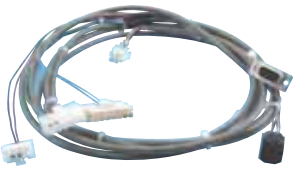
FUTURELOGIC GEN2 DOWNLOAD SUPPORT KIT

- Ref. No. 5105002

Part Number	Description
5105002	FutureLogic GEN2 Download Support Kit

GEN2 DOWNLOAD CABLE

- Ref. No. 5105001



Part Number	Description
5105001	GEN2 Download Cable

FutureLogic GEN2 Parts

FUTURELOGIC RS232 MOTHERBOARD

- Single port
- Ref. no. 140-00093-102

Part Number	Description
140-00093-102	FutureLogic RS232 Motherboard

FUTURELOGIC GEN2 USB MOTHERBOARD

- RoHS compliant
- Ref. no. 140-00100-106

Part Number	Description	
140-00100-106	FutureLogic GEN2 USB Motherboard	
570-00005-100	FutureLogic GEN2 USB Motherboard, Refurbished	VALUE BUY

FUTURELOGIC GEN2 NETPLEX MOTHERBOARD

- Ref. no.140-00092-102

Part Number	Description	
140-00092-102	FutureLogic GEN2 Netplex Motherboard	
570-00004-100	FutureLogic GEN2 Netplex Motherboard, Refurbished	VALUE BUY

FUTURELOGIC LED PCB BOARD

New

- Yellow or Blue available

Part Number	Description
140-00096-100	FutureLogic LED PCB Board, Yellow
140-00096-101	FutureLogic LED PCB Board, Dark Blue

FUTURELOGIC IGT S2000 UPRIGHT LED BOARD

- Ref. No. 140-00014 (751226)

Part Number	Description
140-00014	FutureLogic IGT S2000 Upright LED Board

FUTURELOGIC GEN2 RS232 14 PIN CABLE COIL ASSEMBLY

- Ref. no. 150-00047-100

Part Number	Description
150-00047-100	FutureLogic RS232 Cable Coil Assembly

FUTURELOGIC LOW PAPER TAKEN BOARD

- RoHS compliant
- Replaces 140-00020
- Ref. no. 140-00099-100

Part Number	Description
140-00099-100	FutureLogic Low Paper Sensor Board

FUTURELOGIC KEYPAD MEMBRANE

- Ref. no. 500-00005-100

Part Number	Description
500-00005-100	FutureLogic Keypad Membrane

FUTURELOGIC GEN2 LID OPEN SENSOR

- Ref. no. 470-00007-100
- RoHs Compliant

Part Number	Description
470-00007-100	FutureLogic GEN2 Lid Open Sensor

FutureLogic GEN2 Parts *cont'd*

FUTURELOGIC UPRIGHT BEZEL ASSEMBLY

New

- Upright bezel assembly with gasket, Collect Ticket Decal and LED board
- Ref. no. 130-00024-100

Part Number	Description
130-00024-100	FutureLogic Upright Bezel Assembly

FUTURELOGIC GEN2 BEZEL TOP BOX MOUNT

New

- Bezel face with gasket, Collect Ticket Decal and LED board
- Ref. no. 130-00017-100

Part Number	Description
130-00017-100	FutureLogic GEN2 Bezel Top Box Mount

FUTURELOGIC BAR TOP BEZEL ASSEMBLY

New

- Bar top bezel assembly with gasket, Collect Ticket decal and LED board
- Ref. no. 130-00016-100

Part Number	Description
130-00016-100	FutureLogic Bar Top Bezel Assembly

FUTURELOGIC SLANT TOP BEZEL ASSEMBLY

New

- Slant top bezel assembly with gasket, Collect Ticket decal and LED board
- Ref. no. 130-00015-100
- Replaces 130-00002

Part Number	Description
130-00015-100	FutureLogic Slant Top Bezel Assembly

FUTURELOGIC UPRIGHT BEZEL BRACKET

New

- Front and Bottom Brackets
- Ref. no. 320-00252-100

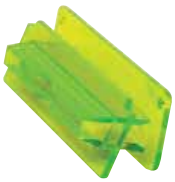
FRONT

BOTTOM

Part Number	Description
320-00252-100	FutureLogic Upright Bezel Bracket

FUTURELOGIC SHORT ANGLED FLANGE BEZEL

New



130-00009-100

130-00009-101

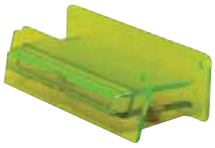
130-00009-102

- LED board mounts directly to bezel

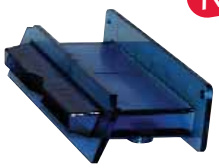
Part Number	Description
130-00009-100	FutureLogic Short Angled Flange Bezel, Yellow
130-00009-101	FutureLogic Short Angled Flange Bezel, Light Blue
130-00009-102	FutureLogic Short Angled Flange Bezel, Dark Blue

FUTURELOGIC LONG ANGLED FLANGE BEZEL

New



130-00021-100



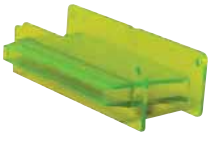
130-00021-102

- LED board mounts directly to bezel

Part Number	Description
130-00021-100	FutureLogic Long Angled Flange Bezel, Yellow
130-00021-102	FutureLogic Long Angled Flange Bezel, Dark Blue

FUTURELOGIC LONG STRAIGHT FLANGE BEZEL

New



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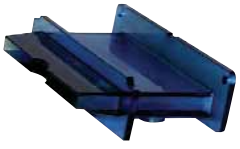


130-00019-102

- LED board mounts directly to bezel

Part Number	Description
130-00019-100	FutureLogic Long Straight Flange Bezel, Yellow
130-00019-101	FutureLogic Long Straight Flange Bezel, Dark Blue

FutureLogic GEN2 Parts *cont'd*

FUTURELOGIC BEZEL BRACKET

New

- Bezel bracket, top box
- Ref. no. 310-00241

Part Number	Description
310-00241	FutureLogic Bezel Bracket

FUTURELOGIC GEN2 TRAY EXTENSION

- Allows 600 ticket capacity
- For PSA-66-ST2
- Ref. no. 320-00224-101

Part Number	Description
320-00224-101	FutureLogic GEN2 Tray Extension

FUTURELOGIC LOW PAPER SENSOR

- Ref. no. 470-00006-101

Part Number	Description
470-00006-101	FutureLogic Low Paper Sensor

FUTURELOGIC BERYLIUM COPPER RING

- Ref. no. 486-00044-100

Part Number	Description
486-00044-100	Futurelogic Berylium Copper Ring

FUTURELOGIC GEN2 TRAY TABLE

- Ref. no. 362-00136-103

Part Number	Description
362-00136-103	FutureLogic GEN2 Tray Label

FUTURELOGIC COILED NETPLEX CABLE

- Ref. No. 150-00032-100

Part Number	Description
150-00032-100	FutureLogic Coiled Netplex Cable

FUTURELOGIC USB NETPLEX COIL CABLE ASSEMBLY

- Ref. no. 150-00109-100

Part Number	Description
150-00109-100	FutureLogic USB Netplex Coil Cable Assembly

FUTURELOGIC ROLLER ASSEMBLY

- Ref. No. 460-00005-100

Part Number	Description
460-00005-100	FutureLogic Roller Assembly

FUTURELOGIC RS232 LID LABEL

- Ref. no. 362-00047-102

Part Number	Description
362-00047-102	FutureLogic RS232 Lid Label

FUTURELOGIC GEN2 PRESENTER MOTOR

- For roller chute assembly
- Ref. no. 340-00002-101

Part Number	Description
340-00002-101	FutureLogic GEN2 Motor

FutureLogic GEN1 Parts

FUTURELOGIC PSA-66 DOWNLOAD SUPPORT KIT

- Ref. no. 5005000

Part Number	Description
5005000	FutureLogic PSA-66 Download Support Kit

FUTURELOGIC PRINT MECHANISM

- For printers with serial numbers beginning with 0
- Ref. No. 400-00002

Part Number	Description	
400-00002	FutureLogic Print Mechanism	
570-00008	FutureLogic Print Mechanism, Refurbished	VALUE BUY

FUTURELOGIC PRINT MECHANISM

- For printers with serial numbers beginning with 9
- Ref. No. 400-00006

Part Number	Description	
400-00006	FutureLogic Print Mechanism	
570-00006	FutureLogic Print Mechanism, Refurbished	VALUE BUY

FUTURELOGIC SHAFT

- Ref. no. 370-00098

Part Number	Description
370-00098	FutureLogic Shaft

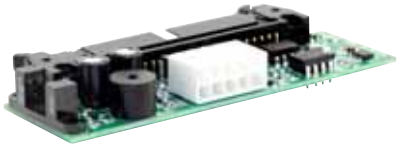
FUTURELOGIC NETPLEX MOTHERBOARD

- Rev. D
- Ref. No. 140-00004-002

Part Number	Description	
140-00004-002	FutureLogic Netplex Motherboard	
570-00002	FutureLogic Netplex Motherboard, Refurbished	VALUE BUY

FUTURELOGIC NETPLEX PCB DAUGHTERBOARD

- Ref. No. 140-00026



Part Number	Description	
140-00026	FutureLogic Netplex PCB Daughterboard	
570-00011	FutureLogic Netplex PCB Daughterboard, Refurbished	VALUE BUY

FUTURELOGIC RS232 PCB MOTHERBOARD

- Ref. No. 140-00005-002

Part Number	Description	
140-00005-002	FutureLogic RS 232 PCB Motherboard	
570-00003	FutureLogic RS 232 PCB Motherboard, Refurbished	VALUE BUY

FUTURELOGIC RS232 PCB DAUGHTERBOARD

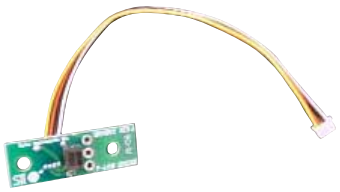
- Ref. No. 140-00027

Part Number	Description	
140-00027	FutureLogic RS 232 PCB Daughterboard	
570-00012	FutureLogic RS 232 PCB Daughterboard, Refurbished	VALUE BUY

FutureLogic GEN1 Parts *cont'd*

FUTURELOGIC LOW PAPER SENSOR

• Ref. No. 150-00024



Part Number	Description
150-00024	FutureLogic Low Paper Sensor
570-00015	FutureLogic Low Paper Sensor, Refurbished VALUE BUY

FUTURELOGIC FRONT BEZEL PORT CABLE

• Ref. No. 150-00008

Part Number	Description
150-00008	FutureLogic Front Bezel Port Cable

FUTURELOGIC 24V POWER SUPPLY

• Ref. no. 350-00258-100

Part Number	Description
350-00258-100	FutureLogic 24v Power Supply

FUTURELOGIC PRINT CABLE

• 16-pin to 16-pin
• Ref. No. 150-00006

Part Number	Description
150-00006	FutureLogic Print Cable

PSA-66-ST GEN I EVAL CABLE

• Ref. No. 5005007

Part Number	Description
5005007	PSA-66-ST GEN I Eval Cable

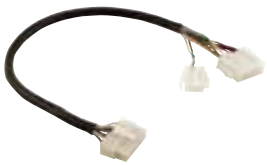
FUTURELOGIC DEDICATED NETPLEX COMMUNICATION & BEZEL PORT CABLE

• Ref. No. 150-00009

Part Number	Description
150-00009	FutureLogic Communication & Bezel Port Cable

FUTURELOGIC RS232 COMMUNICATION AND BEZEL PORT CABLE

• Ref. No. 150-00012



Part Number	Description
150-00012	FutureLogic RS 232 Communication & Bezel Port Cable

FUTURELOGIC TICKET TAKEN CABLE ASSEMBLY

• Ref. No. 140-00018

Part Number	Description
140-00018	FutureLogic Ticket Taken Cable Assembly

FutureLogic GEN1 Parts *cont'd*

FUTURELOGIC TICKET TRAYS

310-00035

310-00037

Part Number	Description
310-00035	FutureLogic Ticket Tray 200
310-00036	FutureLogic Ticket Tray 400
310-00037	FutureLogic Ticket Tray 600

FUTURELOGIC BURSTING BAR TOP

- Gold top bracket
- Ref. no. 310-00042

Part Number	Description
310-00042	FutureLogic Bursting Bar

FUTURELOGIC BURSTING BAR BOTTOM

- Gold bottom guide
- Ref. no. 310-00040

Part Number	Description
310-00040	FutureLogic Bursting Bar

FUTURELOGIC BURSTING BAR BLADE

- Gold blade bracket
- Ref. no. 310-00041

Part Number	Description
310-00041	FutureLogic Bursting Bar

FUTURELOGIC NETPLEX STATIONARY MODULE

- Ref. No. 100-00001

Part Number	Description
100-00001	FutureLogic Netplex Stationary Module

FUTURELOGIC NETPLEX SLIDING MODULE

- Ref. No. 100-00005

Part Number	Description
100-00005	FutureLogic Netplex Sliding Module

RIBBON CABLE

- Ref. No. 150-00010

Part Number	Description
150-00010	Ribbon Cable for FutureLogic
570-00014	Ribbon Cable for FutureLogic, Refurbished VALUE BUY

FUTURELOGIC MEMBRANE CONTROL PANEL

- Ref. No. 280-00001

Part Number	Description
280-00001	FutureLogic Membrane Control Panel

FUTURELOGIC BLUE PRINT LEVER

- Ref. No. 370-00097

Part Number	Description
370-00097	FutureLogic Print Lever, Blue

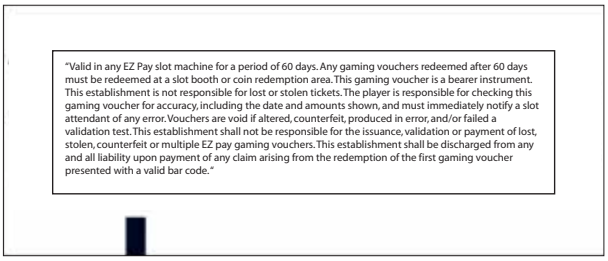
SLOT MACHINE TICKETS BY MAXWELL PAPER

New

- Original approved source for IGT EZ-Pay™ slot machine tickets
- Tickets fit all coinless gaming printers, approved for use by FutureLogic and TransAct
- High quality tickets designed for all TITO "Ticket-In/Ticket-Out" coinless slot machines
- Generic stock available for immediate shipment
- Paper can be pre-printed with your custom logo or design up to six colors
- Custom orders less than 1,000,000 tickets or insufficient artwork may be subject to a one-time setup charge
- Standard 200 sheets per pack; 80 packs per case; 16,000 tickets per case
- Custom ticket pack sizes of 300, 400, 600, 800 and 1,000 available at no additional charge (each pack size quantity must be ordered in full cases)
- Custom ticket minimum purchase: 16,000
- Weight: 38lbs per case; 54 cases/pallet

Blank or Custom Printed Tickets Available

Printed Disclaimer Ticket (26-1600-10)


"Valid in any EZ Pay slot machine for a period of 60 days. Any gaming vouchers redeemed after 60 days must be redeemed at a slot booth or coin redemption area. This gaming voucher is a bearer instrument. This establishment is not responsible for lost or stolen tickets. The player is responsible for checking this gaming voucher for accuracy, including the date and amounts shown, and must immediately notify a slot attendant of any error. Vouchers are void if altered, counterfeit, produced in error, and/or failed a validation test. This establishment shall not be responsible for the issuance, validation or payment of lost, stolen, counterfeit or multiple EZ pay gaming vouchers. This establishment shall be discharged from any and all liability upon payment of any claim arising from the redemption of the first gaming voucher presented with a valid bar code."

Part Number	Description
27-1600-00	Blank Tickets with Printed Sensor Mark
27-1600-10	Tickets with Printed Disclaimer* and Sensor Mark, 200 Sheets/Pack
27-1600-X	Custom Printed Tickets, Black and up to 6 Additional Color

SUZO HAPP
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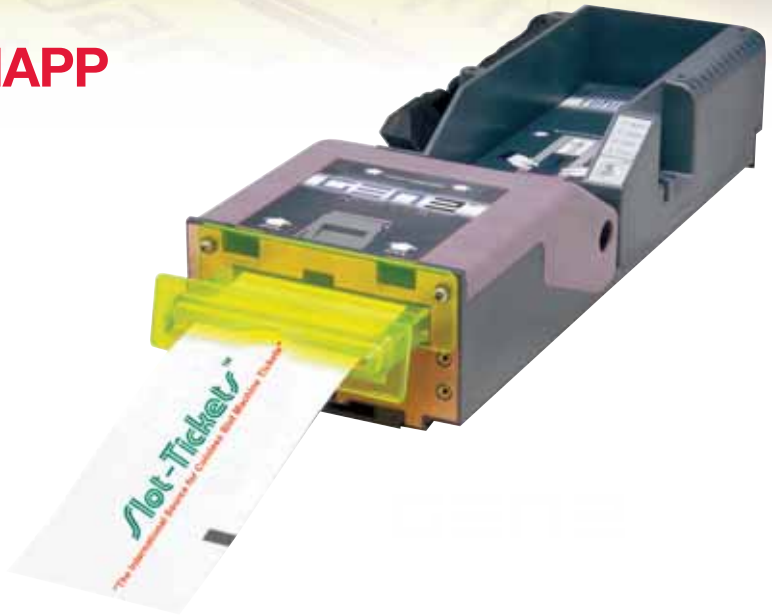
Company
News Now
Technical Support
Want the easiest way to order products online? Then use our online Shopping Cart System! Just go to our home page at suzohapp.com and click on How to Shop.
SUZO HAPP

SLOT MACHINE TICKETS BY Slot-Tickets™

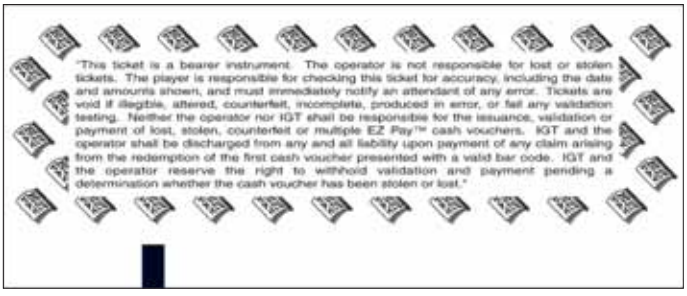
Now Available at SUZO-HAPP



- Original approved source for IGT EZ-Pay™ slot machine tickets
- Tickets fit all coinless gaming printers, approved for use by FutureLogic and TransAct
- High quality tickets designed for all TITO "Ticket-In/Ticket-Out" coinless slot machines
- Generic stock available for immediate shipment
- Unique "White Phantom" UV light security watermark may be customized with your logo
- Paper can be pre-printed with your custom logo or design up to six colors
- Standard 200 sheets per pack; 60 packs per case; 12,000 tickets per case
- Custom ticket pack sizes of 300, 400, 600, 800 and 1,000 available at no additional charge (each pack size quantity must be ordered in full cases)
- Custom ticket minimum purchase: 12,000
- Custom orders less than 1,000,000 tickets or insufficient artwork (see guidelines on back) may be subject to a one-time setup charge
- Weight: 30 lbs per case, 42 cases per skid

Slot-Tickets™
"The International Source for Coinless Slot Machine Tickets"
SUZO HAPP
GAMING, AMUSEMENT AND INDUSTRIAL COMPONENTS

Blank or Custom Printed Tickets Available


"This ticket is a bearer instrument. The operator is not responsible for lost or stolen tickets. The player is responsible for checking this ticket for accuracy, including the date and amounts shown, and must immediately notify an attendant of any error. Tickets are void if illegible, altered, counterfeit, incomplete, produced in error, or fail any validation testing. Neither the operator nor IGT shall be responsible for the issuance, validation or payment of lost, stolen, counterfeit or multiple EZ Pay™ cash vouchers. IGT and the operator shall be discharged from any and all liability upon payment of any claim arising from the redemption of the first cash voucher presented with a valid bar code. IGT and the operator reserve the right to withhold validation and payment pending a determination whether the cash voucher has been stolen or lost."

Printed IGT Disclaimer Ticket (27-1500-10)*

Part Number	Description
27-1500-00	Blank Tickets with Printed Sensor Mark
27-1500-10	Tickets with Printed IGT Disclaimer* and Sensor Mark, 200 Sheets/Pack
27-1500-X	Custom Printed Tickets, Black and up to 6 Additional Colors

* Printed disclaimer reads as follows: "This ticket is a bearer instrument. The operator is not responsible for lost or stolen tickets. The player is responsible for checking this ticket for accuracy, including the date and amounts shown, and must immediately notify an attendant of any error. Tickets are void if illegible, altered, counterfeit, incomplete, produced in error, or fail any validation testing. Neither the operator nor IGT shall be responsible for the issuance, validation or payment of lost, stolen, counterfeit or multiple EZ Pay cash vouchers. IGT and the operator shall be discharged from any and all liability upon payment of any claim arising from the redemption of the first cash voucher presented with a valid bar code. IGT and the operator reserve the right to withhold validation and payment pending a determination whether the cash voucher has been stolen or lost"

Slot-Tickets™

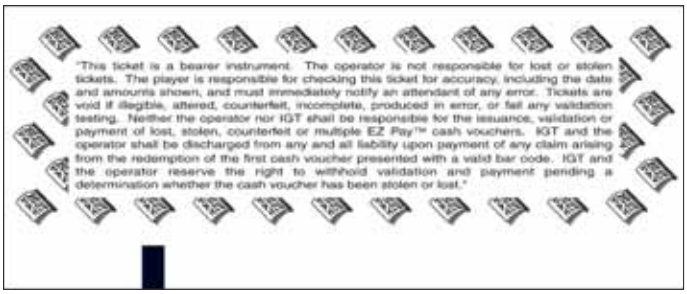
Electronic File / Process Guidelines:

- Maximum printable area: 152.9mm by 43.1mm.
- File resolution: use 227 pixels per inch (at 100% size). This is for a 153 line screen.
- File resolution: use 1200 pixels per inch for bitmaps.
- One-bit graphics should be converted to curves.
- Avoid hairline rules; minimum line weight should be no less than .75 pt.
- The Adobe Type Library will be used unless Type 1 fonts are supplied. Be sure to include all fonts and support files (eps, tif, jpg).
- Avoid text smaller than 4 pts. especially when reversed or for ®, ©, or ™ symbols.
- Reverse text should be bold and, if possible, outlined with a .75 or 1-point stroke.
- Send process images in RGB mode if possible. Beware of RGB colors that may be out of CMYK's gamut range. Many RGB colors cannot be printed accurately using CMYK.
- Customer supplied hard copy is necessary.
- Use only the colors you want your slot ticket to print or specify colors to be used; delete all unused colors.
- Use a hierarchy when creating your folder for organizational purposes.
- Create the entire file in one design package. Try not to import several different files from Illustrator, Freehand, and Photoshop, etc. into QuarkXpress. This makes it very difficult to trap accurately.
  Do as much design as you can in one program.
- If images are placed into QuarkXpress, try to place the images as 100% (minimal reduction or enlargement). This is particularly important of rasterized images (Photoshop).

Email attachments should be Stuffed or Zipped and sent to:
artwork@suzohapp.com
We recommend that files over 20MB be sent on disk or CD accompanied by a hard copy to:
SUZO-HAPP
Attn: Artwork Department-Slot-Tickets
106 Garlisch Drive
Elk Grove, IL 60007 USA

Slot-Tickets™
"The International Source for Coinless Slot Machine Tickets"
SUZO HAPP
GAMING, AMUSEMENT AND INDUSTRIAL COMPONENTS

Blank or Custom Printed Tickets Available

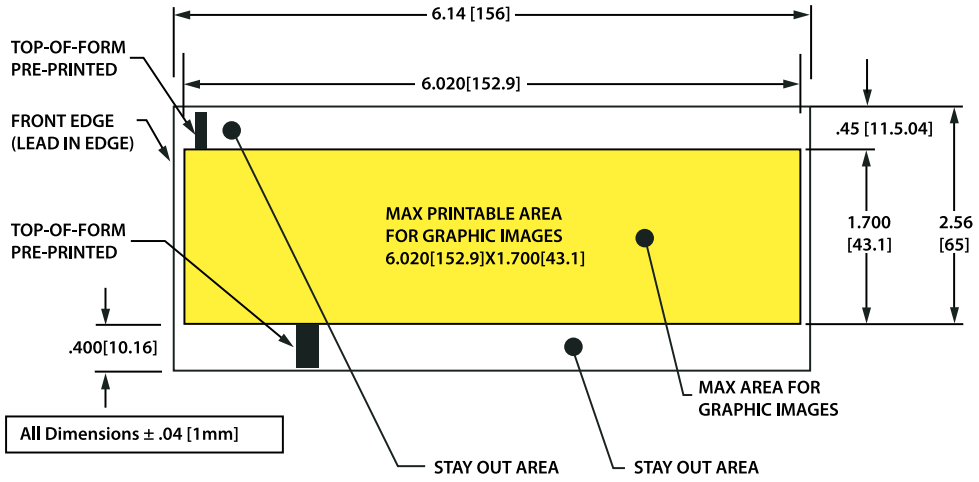

"This ticket is a bearer instrument. The operator is not responsible for lost or stolen tickets. The player is responsible for checking this ticket for accuracy, including the date and amounts shown, and must immediately notify an attendant of any error. Tickets are void if illegible, altered, counterfeit, incomplete, produced in error, or fail any validation testing. Neither the operator nor IGT shall be responsible for the issuance, validation or payment of lost, stolen, counterfeit or multiple EZ Pay™ cash vouchers. IGT and the operator shall be discharged from any and all liability upon payment of any claim arising from the redemption of the first cash voucher presented with a valid bar code. IGT and the operator reserve the right to withhold validation and payment pending a determination whether the cash voucher has been stolen or lost."

Printed IGT Disclaimer Ticket (27-1500-10)*

Acceptable Software Applications

Mac Software:
Adobe Illustrator
Adobe Photoshop
Adobe Pagemaker
Macromedia Freehand
QuarkXpress
Corel Draw

PC Software:
Adobe Illustrator
Adobe Photoshop
Adobe Pagemaker
QuarkXpress
Corel Draw



Starpoint was founded in 1968, initially manufacturing electro-mechanical timers for the established vending and emerging amusement industries. With the introduction of the microprocessor, Starpoint developed its first reel mechanism utilizing stepper motor technology in the early eighties. Through continuous innovation and product development, Starpoint rapidly grew to be the number one supplier of reel mechanisms throughout the UK and Europe.

Now, through dedication, new product development and superior customer communications, Starpoint supplies every major U.S. OEM with reel mechanisms designed specifically for their individual use.

In October 2006 Starpoint merged with the Suzo-Happ Group in order to secure Starpoint's market position and strengthen the distribution of its products. The extensive market knowledge of Suzo-Happ Group along with the combined expertise in design and engineering and the manufacturing excellence of Chinatec, (a Chinese manufacturer that joined the group in 2008) led to the development of the new, exciting line of "Feature" based Toppers. These Toppers offer superb exterior styling and contain existing electronic displays and reel mechanisms, together with new mechanical display feature units.

Suzo-Happ Group and Starpoint protect intellectual property with a large portfolio of granted and applied for patents. These patents are leading to new and innovative reel mechanism designs which will allow our customers to enhance their game value to the player. This fully supports our vision statement of "Making Games People Play Better".

STARPOINT 12RM REEL MECHANISM

- The 12RM is a traditional reel mechanism with the widest range of motor options and machine interfaces
- Has a traditional reel drum for quick, simple fitting of reel bands
- 48-step or 200-step motor, in either a 12v or 24v version
- Four standard reel widths available, 56mm, 66mm, 79.5mm and 90mm
- A unique Starpoint quick release foot system is available for fixing the reel mechanism to the cabinet which allows for the easy removal of the unit without the aid of tools
- Fully tested and assembled
- Minimum order quantity required
- Available only for custom OEM applications
- Due to Gaming regulations, this product can only be sold to qualified OEM manufacturers
- Contact your sales representative for more details

STARPOINT

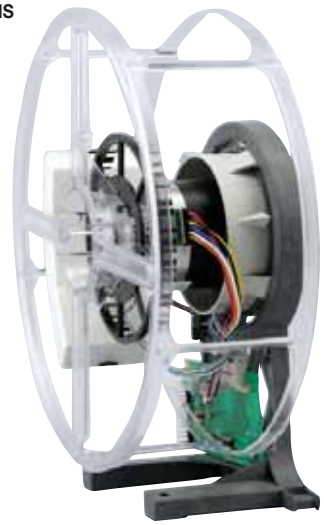
12RM

STARPOINT 12RMS REEL MECHANISM

- The 12RMS is a high security "Reel Movement Sensing" (RMS) reel mechanism, of a plastic modular design
- Reel Movement Sensing is required by GLI regulations
- Utilizes encoder strip technology to detect any physical movement of the reel by external forces, thereby offering high levels of security
- Powerful 200-step motor, in either a 12v or 24v version
- Four standard reel widths available, 56mm, 66mm, 79.5mm and 90mm, all of which can be backlit using various illumination options.
- Three standard encoder strips available for use with different symbol numbers:
  - 12/24 symbol
  - 20/25 symbol
  - 16/18/22 symbol
- A unique Starpoint quick release foot system is available for fixing the reel mechanism to the cabinet which allows for the easy removal of the unit without the aid of tools
- Fully tested and assembled
- Minimum order quantity required
- Available only for custom OEM applications
- Due to Gaming regulations, this product can only be sold to qualified OEM manufacturers
- Contact your sales representative for more details

STARPOINT

12RMS



STARPOINT 26RMS REEL MECHANISM

- The 26RMS is a high security “Reel Movement Sensing” (RMS) reel mechanism, of a metal fabricated, modular design.
- Reel Movement Sensing is required by GLI regulations
- Utilizes molded encoder technology to detect any physical movement of the reel by external forces, thereby offering high levels of security
- Molded encoder is specifically designed for use with either 11 symbol or 22 symbol reel bands.
- Powerful 24v, 200step Bi polar motor, gives higher resolution and better temperature control
- Available with and without motor driver circuits fitted.
- Three standard reel widths available, 62.8mm, 79mm and 88.5mm. which can all be back lit with white or RGB illumination
- LED boards are fitted with constant current regulators, which allow for direct drive or PWM.
- Robust metal construction with a floating connector that can be used in conjunction with the Starpoint plastic connector mount, or align directly into the cabinet back plane
- Fully tested and assembled
- Minimum order quantity required
- Available only for custom OEM applications
- Due to Gaming regulations, this product can only be sold to qualified OEM manufacturers
- Contact your sales representative for more details

26RMS

STARPOINT

STARPOINT DICE UNIT

STARPOINT

- Tumbling dice with true-to-life 3-dimensional dice action
- Can be used as a feature or central game device
- Controlled tumbling in free space appears real to player
- Customer specified decals (dots, shapes, animals, etc.)
- Modular construction with Quick Release Feet and a variable mounting angle make the unit simple to incorporate
- 48 step, 12v motor
- Available in a variety of colors
- Available only for custom OEM applications
- Due to Gaming regulations, this product can only be sold to qualified OEM manufacturers
- Minimum order quantity required – contact your sales representative for more details

STARPOINT COIN MECHANISM GAME DEVICE

New

STARPOINT

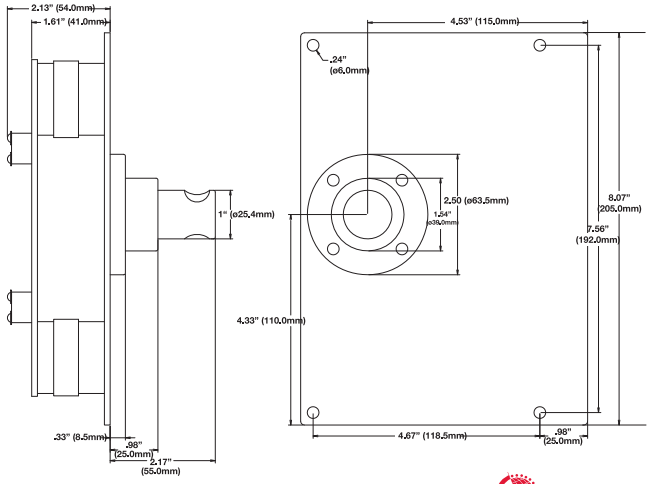
- The coin mechanism offers a realistic presentation of a disc being randomly flipped
- Designed on the proven dice technology
- Can be used as a feature or central game device
- Glass mount or standard base mount options available
- 48-step 12V motor
- Fully tested and assembled
- Minimum order quantity required
- Available only for custom OEM applications
- Due to Gaming regulations, this product can only be sold to qualified OEM manufacturers
- Contact your sales representative for more details

HANDLE MECHANISMS

- The STC handle mechanism gives the appearance and feeling of a traditional slot machine
- Precisely engineered and built with quality materials
- Available in 3 different versions: (Standard, Premier and Deluxe) and choice of mounting (90° horizontal and 180° vertical)
- (Accessories such as handle, hub, bolt and coverplate are not included)

Horizontal mounting

Vertical mounting



SUZO HAPP

Standard
- Handle mechanism with start function only

Premier
- Handle mechanism with simulator gives the appearance and feeling of playing a mechanical slot machine

DeLuxe
- Handle mechanism with simulator and handle lock.
- Gives the appearance and feeling of playing a mechanical slot machine. The handle lock offers the facility to block the mechanism when there are no credits.

Part Number	Description
12-1800-XX	Standard Handle mechanism, Vertical
12-1900-XX	Standard Handle mechanism, Horizontal
12-1810-XX	Premier Handle Mechanism, Vertical
12-1910-XX	Premier Handle Mechanism, Horizontal
12-1830-14	Deluxe Handle Mechanism, Vert. 24VDC
12-1830-15	Deluxe Handle Mechanism, Vert. 12VDC
12-1930-14	Deluxe Handle Mechanism, Horz. 24VDC
12-1930-15	Deluxe Handle Mechanism, Horz. 12VDC

-XX "Please give numbers" - 15 = 12VDC / - 14 = 24VDC

Accessories like handle, hub, bolt and plate are not included.

HUB

- Made from ABS material
- Used with handle assy and cover plate

Part Number	Description
12-1210-8	Hub chrome plated
12-1210-4	Hub gold plated

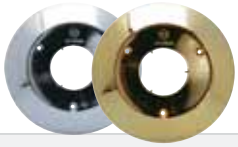
HUB

- Made from ABS material
- Used with handle assy and cover plate

Part Number	Description
12-1200-8	Hub chrome plated

COVER PLATE

- Made from ABS material
- Used on the outside of your slot machine with hub



Part Number	Description
12-1510-4	Cover plate gold
12-1510-8	Cover plate chrome

HANDLE BALL ASSEMBLY

- These quality handles are finished with standard chrome finish

Part Number	Description
12-1318	Long Handle Ball Assembly 263mm (14.29") long
12-1328	Short Handle Ball Assembly 241mm (9.49") long

HANDLE BALL

- Standard available in black
- Special colours available on request
- Used for all STC handles

Part Number	Description
12-1100	Black handle ball

GRAY CODE CAM

Part Number	Description
12-1615	Standard cam

MOUNTING BOLT

- Used for all STC handles

Part Number	Description
67B-101-700	Bolt

ILLUMINATED HANDLE MECHANISM BALL

New

- Trigger players interest in your handle machines with our new illuminated handle ball
- Can be illuminated in any color by 2 multi color LEDs controlled from the host machine
- Flashing, glowing, or any light pattern is possible
- Lightens the dark gap between slot machines
- Durable sonic-welded construction of illuminated ball ensures a durable closure on illuminated ball
- Supplied with a special drilled handle to connect the wiring inside the unit
- Handle diameter is 15.9mm (.63") and is 395mm (15.55") long with a 5/16" thread
- Requires 12vdc power from within the machine
- Requires custom installation, including drilling a 3mm (1/2") hole near to handle mech to pass thru power connection harness to illuminated handle
- Optional host cable (104-0069) allows you to hook up a button/switch to have color or patterns change during game play.
- Requires special handle mech. cover plate (12-1520-8) and Hub (12-1220-8) sold separately

12-1708B

12-1520-8

12-1220-8

Part Number	Description
12-1708B	Illuminated Handle Mech Ball
12-1520-8	Illuminated Handle Mech Cover Plate
12-1220-8	Illuminated Handle Mech Hub

ACROSSER ACE SERIES ALL-IN-ONE GAMING PLATFORMS

New

Are you tired of integrating a single board computer with many other device control boards in your gaming machines?

Multiple boards and their interconnected harnesses make gaming machines not only expensive but also unreliable. In order to reduce costs and increase reliability, an efficient gaming platform should consist of an All-in-One Single Board Computer that has specific features special to the gaming application. Acrosser's "All-In-One" ACE series integrates the SBC and gaming I/O board together, to reduce the number of PCB's and harnesses in each Gaming machine while also increasing its simplicity and reliability. This All-in-One solution not only fulfills the needs of our customers but it is also in line with the current gaming market trends. Acrosser's All-in-One gaming products are designed to comply with GLI, BMM and other gaming regulations directly off the shelf.

Acrosser Features:

A Complete Solution for Video Slot Machines and Video Lottery Terminals

- Complete peripheral control hardware:
  Digital I/O, Intrusion logger, Non-volatile memory, Software security, RNG, RTC, Timers and Interrupt control.
- Device driver and API for gaming I/O control which support Windows XP, Windows CE and Linux
- Designed to comply with GLI and jurisdictions of most countries
- Dedicated technical support team.

Highest Quality

- Quality Assurance - 100% Burn-in/ ESS Vibration/ Functional test
- No. 1 in Quality among industrial PC manufacturers
- Average DOA rate: 0.23%
- Average RMA rate: 0.99%
- Two year product warrantee

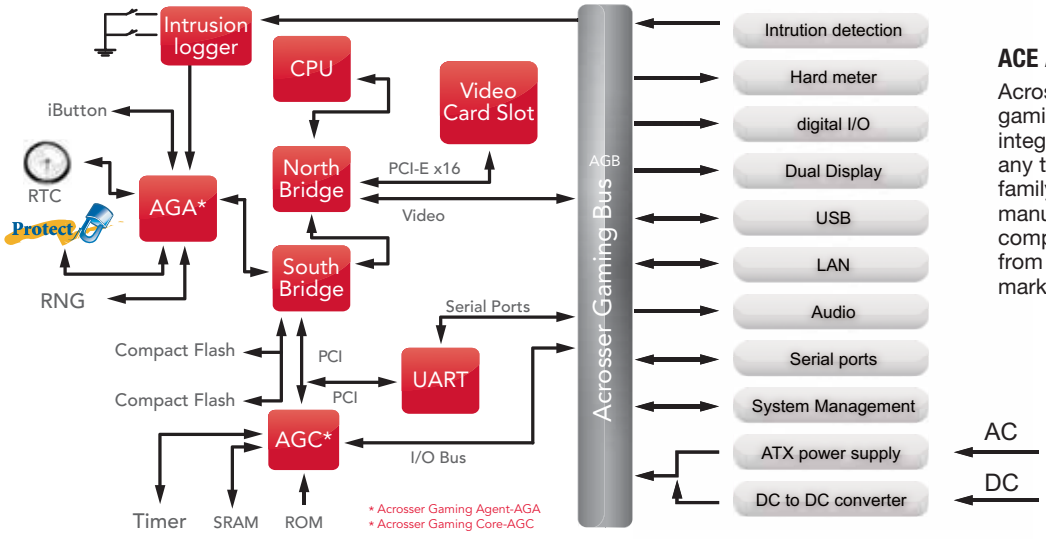
Latest Technology

- Specific & Innovate design in gaming:
  Acrosser Gaming Core (AGC) & Acrosser Gaming Agent (AGA); ProtectU (Patent software security)
- Total solutions for Gaming Specific Application:
  Devices drivers for Windows XP Windows CE & Linux API & Firmware for gaming machine
- Scalable platforms: Intel/AMD single core and dual core basis
- Fanless and dustproof system design provides extreme reliability solution

Top Service & Support

- VIP service for Gaming Manufacturer
- Dedicated Gaming Care Task Force: Provides customer the professional support and time efficient response/service R&D, FAE, QA/QE Sales & Project Management
- Customization service to meet customer's target market

Visit our website,
suzohapp.com
for more Acrosser products



ACE All-in-One Gaming Platform

Acrosser's off-the-shelf All-in-One gaming platform ACE is already integrated with the features required for any type of gaming machine. The ACE family helps gaming machine manufacturers utilize the latest computer technology while benefiting from a lower cost and a shorter time to market.

Non-Volatile Memory	Real Time Clock	Smart Hard Meter Output
Intrusion Logger	ProtectU & TPM	iButton
Dual Displays	AGC/AGA	Interrupt
Device Driver	API	Jurisdiction Chip
Digital I/O	Timer	Random Number Generator

ACE Software

Acrosser offers a software package to support the ACE series gaming platform. This software package includes device drivers, application program interface (API) and hardware diagnostic software. This provides a reliable foundation for application developers. In addition to the free standard software package, Acrosser also provides BIOS customization and Windows Embedded OS services. This one stop shop of services and technical support eliminates the irritating compatibility problems between different hardware suppliers.

ACE Device Driver

The ACE device driver provides an easy software interface to control and access the gaming specific functions on ACE gaming platform. The ACE device driver supports Windows XP, Windows XP Embedded, Windows CE and Linux also enabling portable coding between different operating systems.

- Memory Controller: SRAM and ROM access
- Timers control
- Digital I/O control and configuration
- Interrupt Control
- De-bounce time programming

ACE Application Program Interface (API)

The ACE API enables application developers a convenient way to handle the peripheral control hardware on ACE. These API functions save the time of application development. Over 50 functions are included.

- Memory, I/O, configuring and timer access and control
- iButton, ProtectU, secure RTC, watchdog timer, Smart Hard Meters and RNG
- Interrupt control & handling
- Battery status, system management and monitoring
- Random number generator (RNG)

Embedded BIOS

Acrosser provides a full featured embedded BIOS that delivers the superior performance and functionality that is required by most gaming applications.

- Quick boot less than 10 seconds
- OEM customized screen during boot
- Default CMOS setting
- BIOS setup menu customization
- TPM secure boot
- Pre I/O configuration

Embedded OS

Acrosser is experienced in Windows embedded OS porting. Acrosser provides customized and reliable ACE platforms embedded OS image for Windows XP Embedded and Windows CE.

ACE Diagnostic Program

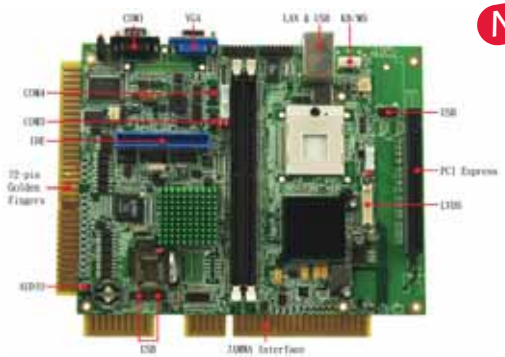
A diagnostic program and its source code are included in the ACE software package free of charge. It facilitates the hardware testing and verification and can be used as a framework for hardware test and verification.

ACROSSER

New

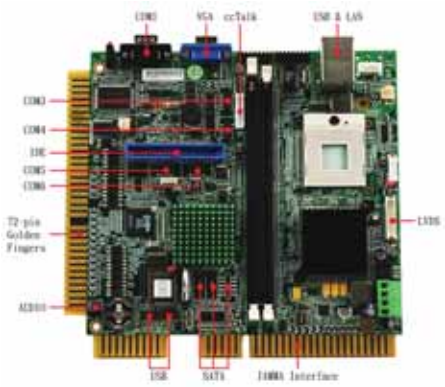
ARES AR-ES0892 EMBEDDED COMPUTER

New



ACE-5292 MINI-ITX CONTROL BOARD

New



ACE-5290 MINI-ITX CONTROL BOARD

New

ACE-2002 INDUSTRIAL I/O CARD

Part Number	Description
95-0466-00	Acrosser Ares AR-ES0892 Embedded Computer
95-0436-00	Acrosser ACE-5292 Mini-ITX Control Board
95-0379-00	Acrosser ACE-5290 Mini-ITX Control Board
95-0497-00	Acrosser Ares AR-ES0892FL Embedded Computer (not shown)
95-0352-00	Acrosser ACE-2002 Industrial I/O Card
95-0667-00	Optional Terminal Board

Visit our website, *suzohapp.com* for more Acrosser products

VISUALIMITS

THE NEW FACE OF CASINO TABLE SIGNAGE

New

- The VisuaLimits Table Sign is a highly complex computer system capable of enhancing your gaming operations while creating a revenue stream for your property. Although innovative, VisuaLimits Table Signs are not overbearing and will not have any negative effect on pit operations. In fact, VisuaLimits Table Signs will make pit operations easier.
- VisuaLimits Automatic Dropping feature allows your signs to detect activity at your game. If you game is dead for a predetermined amount of time, set by management, the sign will automatically drop the limit to attract more game play. This feature is completely customizable. In addition you can now easily turn your table into a non-smoking table with VisuaLimits non-smoking feature.
- Visualimits can inform your patrons of pertinent information about your establishment while also collecting data that can be used to make your table games more efficient. Advertisements are displayed using two methods; when the dealer is shuffling the cards VisuaLimits Table Signs target a captive audience and when the game is without players the Table Signs attract consumers walking past the gaming tables. In this mode the signs act as a billboard; a full-motion video billboard.
- VisuaLimits brings new life to table games by adding custom videos and knows when the time is right to advertise your products and services. **VisuaLimits doesn't distract your players when the game is active.**
- VisuaLimits Media Manager – VisuaLimits Media Manager allows your digital media department full control of the advertising capabilities of the VisuaLimits system. You can now manage 6 casinos from one location. You can also allow two of the six casinos to manage their own content while allowing the upper level or corporate administrators the ability to add to this content or modify it. This software is web based and capable of being accessed through any internal pc on the network.
- VisuaLimits Table Management System – Casino operations staff now has the ability to easily choose what limits are needed for a particular game or set of games. Casino op's has the ability to manage the verbiage that is on their games as well as setting the durations that they feel are effective for the VisuaLimits Automatic Dropping feature.
- This is a small sample of what the VisuaLimits Table Sign can do for your casino; please contact a sales representative for further details

VisuaLimits Table Monitoring System (VTMS) features:
Table Game Status

- Active status of all of your games (Active, Dead, Closed)
- The duration of how long your games have been Active, Dead, or Closed
- The current limit and how long the game was at that limit, on all open games, as well as displaying the previous limit
- The ability to "remotely" drop the limits on games that are dead
- How long the game has been active at that limit
- Whether the game is non-smoking and how long it has been non-smoking
- Bar graph analysis

Dealer Statistics

- Overall Hands per Hour on a particular game (HPH-GM)
- Individual Dealer performance (HPH) (real-time)
- Individual Dealer Performance – chronological line graph
- Overall Hand per Hour Average/Game (Last 7 days, Past 30, Overall)
- Shuffle Time (real-time)
- Individual Dealer Shuffle Time
- Shuffle Time Average/Game (Last 7 days, Past 30, Overall)
- "True" Hand per Hour (THPH) (real-time)
- "True" Hand per Hour Average (Last 7 days, Past 30, Overall)

Contact your sales representative or visit our web site for more information.

VISUALIMITS

New

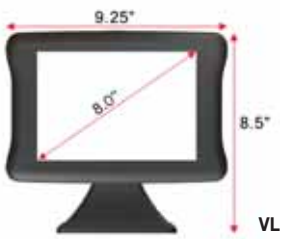
COMPARE MODELS

VISUALIMITS

Features	VL PRO	VL BASE
Custom Stylish Enclosure	✓	✓
Static Image Playback	✓	✓
Rear Color Changing Display for Pit Staff	✓	✓
Non-Smoking Capable	✓	✓
Ability to Isolate All of Your Signage Into One Sign	✓	✓
VisuaLimits Table Monitoring System (VTMS) Capable	✓	✓
VisuaLimits Advertising Program*	✓	✓
Minimum Bet Maintenance	✓	✓
Networked (Wired/Wireless) Updating Capabilities	✓	✓
Discard Racks Included	✓	✓
TV Input (Audio + Video in) (CVBS)	✓	
High Resolution 8.4" SVGA Screen	✓	
Streaming Video Content	✓	
Full-Motion Video	✓	
Training Video Playback	✓	
Audio Capabilities	✓	
Sports Ticker Capabilities	✓	

*VisuaLimits Advertising Program allows you to utilize VisuaLimits advertising reach to earn additional revenue by placing approved outside advertisers on your VisuaLimits Table Signs.

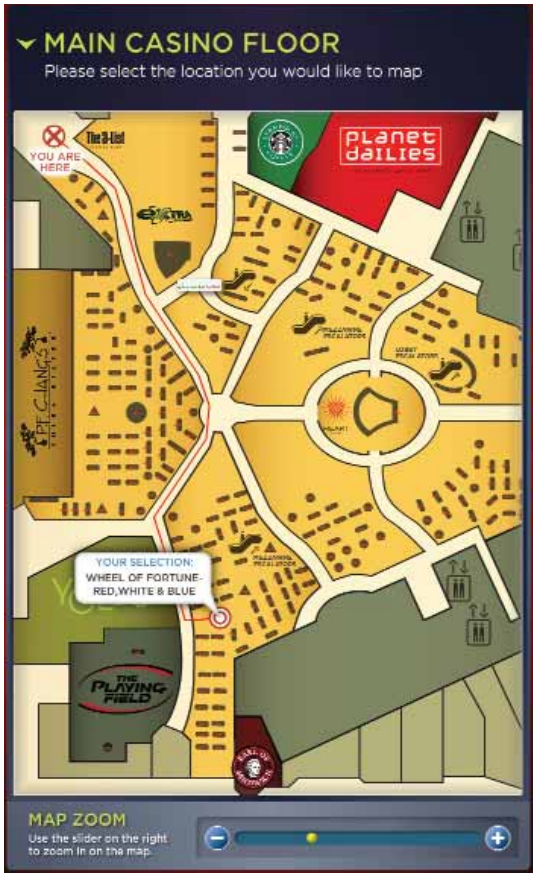
VL PRO



VL BASE

iSLOTFINDER WAYFINDING

New


MAIN CASINO FLOOR
Please select the location you would like to map
YOU ARE HERE
planet dailies
YOUR SELECTION:
WHEEL OF FORTUNE-RED,WHITE & BLUE
THE PLAYING FIELD
MAP ZOOM
Use the slider on the right to zoom in on the map.

jupiterbay

iSlot Finder provides your guests with a means of easily locating their favorite slot or table games on your casino floor. They simply walk up to the touch screen, select their favorite game and watch as the screen highlights their game on the map and then draws the shortest path to get there.

Features:

- Provide visitors and guests with intuitive directions to their favorite slots/games within your Casino/Resort
- Intuitive interface, making it easy for anyone to use
- Support for families of Slot machine games (variation of main title)
- Link your slot management software to iSlot
- Finder to make changes seamless
- Search games based on denomination, name or theme
- Players can swipe their reward cards and slots selected from previous visits can be shown
- Available in 32", 40", 46" & 57" LCD screen sizes with integrated touch
- Can be wall mounted, end of slot bank orself-standing unit
- Integrates with "Virtual Concierge" module from Jupiterbay.
- Add details about your on-site restaurants, events, spa and on-site amenities at the touch of a finger.
- Professionally designed content, enhancing your guests experience during their stay
- Outdoor units available

Contact your sales representative to schedule a web demo.

JUPITERBAY WAYFINDING

New

Interactive Maps for any Venue Utilizing a Static Directory

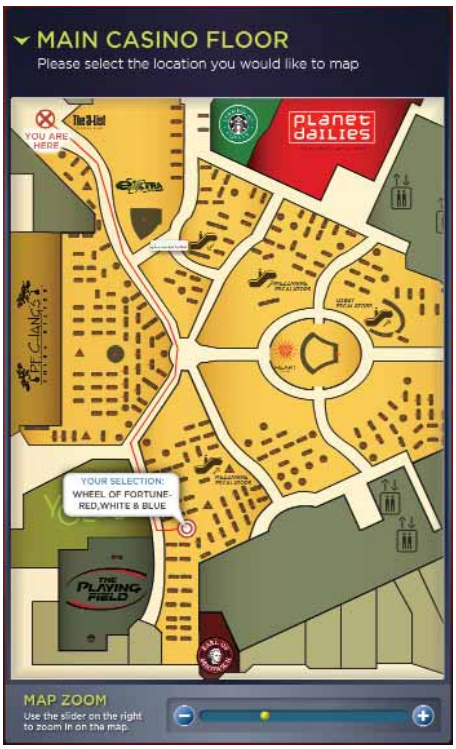
For Casinos, Family Entertainment Centers, Hospitals, Shopping Malls, Theme Parks, College Campuses, Airports, Convention Centers or any venue that currently uses a static directory.

Our wayfinding solution provides intuitive directions by providing an on-screen path to your visitors destination. We take it a step further and allow you to rotate the map to orient to the way the kiosk is positioned on your floor. Our "Wayfinding Engine" also draws the shortest distance to their destination based on all available pathways you teach it! Updates such as new stores or attractions can be added without Jupiterbay's assistance utilizing FusionCast, our Digital Signage & Interactive Kiosk software suite.

Features:

- A variety of intuitive search methods to help your visitors initially locate their destination
- Add/Edit/Delete directory listings with our web-based editor
- Multimedia platform allows you to integrate video, images and sound to the directory listing
- Reduce the amount of inquiries to your front desk, reducing staff required
- Easily add integrated advertising, adding a revenue stream to your bottom line
- Easily manage remote locations from your web browser, making changes instantly
- Enclosures can be customized to match your environment
- Weatherproof outdoor solutions available

Contact your sales representative to schedule a web demo.


MAIN CASINO FLOOR
Please select the location you would like to map
YOU ARE HERE
planet dailies
YOUR SELECTION:
WHEEL OF FORTUNE-RED,WHITE & BLUE
THE PLAYING FIELD
MAP ZOOM
Use the slider on the right to zoom in on the map

jupiterbay

FUSIONCAST DIGITAL SIGNAGE STARTER KIT

New

jupiterbay

FusionCast Digital Signage Package

FusionCast is a web-based digital signage software product that allows you to display custom messages, multimedia content (photos, videos, etc.) or live data to your digital displays. Whether you need to deploy a single digital display or possibly an entire network of displays across multiple locations, FusionCast can provide a cost effective solution that is easy to manage.

Content Editor

FusionCast allows you to combine images and text to easily build a custom message for your business needs. All this is done through a web-browser and can be done on-demand, no need to wait for another company to make the changes for you! Schedule content to start/stop based on hour/day/week/month.

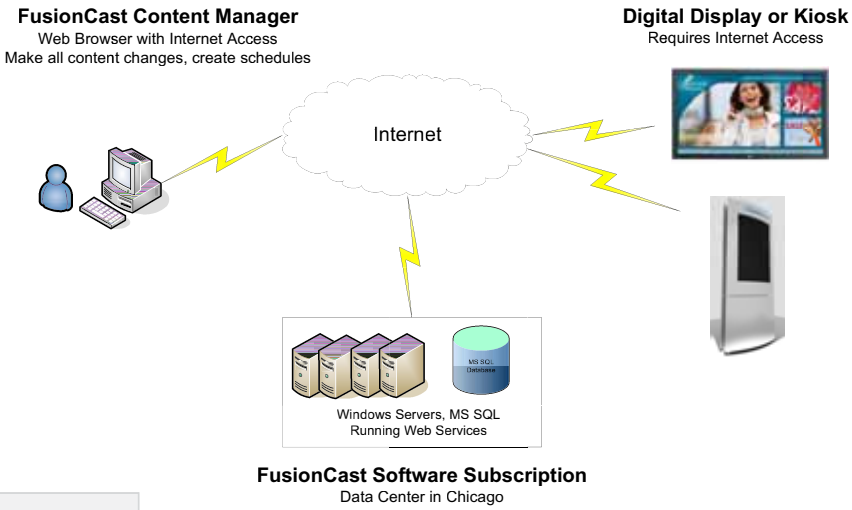
No Server hardware or IT expertise required

Manage all your content over the Internet on our hosted servers. All you need is an Internet connection to the display (wired/wireless) and it automatically downloads a copy of the content you created within FusionCast. Update the screen content from anywhere – work, home, public.

Features:

- 42" Kortek LCD display
- Jupiterbay mini-player PC
- Screen Template package: Five professionally designed backgrounds and layouts
- Annual FusionCast subscription: 12 months of use of Content Editor and management tools. $800/year starting in year two.
- Wall mount with surge suppressor
- Quick Start Package: Expert telephone support to assist you with any start-up questions
- Shipping and Handling
- Does not include Internet service
- Ships 2-3 weeks

FusionCast System Structure



Part Number	Description
JB-SIGN-01	FusionCast Digital Signage Starter Kit

CERONIX Monitors

The Standard of the Gaming Industry!

United States-based CERONIX, Inc. manufactures and repairs all CERONIX, Inc. products in Auburn, California. CERONIX, Inc.'s primary operations take place in a 63,000 square foot state-of-the-art technological and manufacturing facility that was designed and built to be modern, efficient and cutting-edge.

From the Automatic Insertion Machines to the Wave Soldering machine, CERONIX, Inc. has invested over $26,000,000 into state-of-the-art technology, equipment, and facilities since building this manufacturing plant.

CERONIX, Inc. invested in this cutting-edge manufacturing and testing technology to ensure that customers receive the very best and most reliable products in the market today. And because the majority of manufacturing takes place in the same facility, from engineering to finished product, they can develop custom-made monitors and circuit boards and ship them to customers – usually the next day!

- Made only with premium grade components for better picture quality
- Engineered and designed to run cooler, last longer
- Superior PVA or SPVA LCD panel with 178° viewing angle
- Infra-red remote allows you to easily make adjustments
- Quick delivery – all monitors are assembled in Auburn, California
- Standard CERONIX 4-year warranty on LCD monitors and 2-year warranty on CRT monitors

19" CERONIX LCD FOR ARISTOCRAT MAV500 & MAV540

49-5000-00

49-2639-00

- 19" LCD kit with 3M touch screen
- 49-5000-00 is an exact replacement for Wells Gardner WGF1190-TSLS92F LCD in a 19" upright Aristocrat machine
- Premium PVA panel with widest viewing angle available – 178˚
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- CERONIX LCDs are designed to meet the rugged 24/7 demands of the Gaming Industry
- Manufactured with premium grade components
- All kits are assembled in Auburn, California and carry the CERONIX 4-year warranty
- Designed to run cooler, last longer

Part Number	CERONIX No.	Description
49-5000-00	CPA4056L	19" LCD Replacement Door Mount Kit for Aristocrat MAV540 (Mark V, VI)
49-2639-00	CPA4088L	19" LCD for Aristocrat MAV500 (Mark VI) Upright

CERONIX LCD UPGRADE KITS FOR ARISTOCRAT

New

49-3214-00

49-0460-00

- Give new life to you old Aristocrat 17" and 19" slant top and upright machines
- Premium PVA panel with widest viewing angle available – 178˚
- Units include a durable plastic injection molded bezel which provides for easy installation
- Includes touch screen and controller
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- CERONIX LCDs are designed to meet the rugged 24/7 demands of the Gaming Industry
- Manufactured with premium grade components
- All kits are assembled in Auburn, California and carry the CERONIX 4-year warranty
- Designed to run cooler, last longer

Part Number	CERONIX No.	Description
49-3214-00	CPA4085L	17" CERONIX LCD Upgrade Kit for Aristocrat Slant Top L30700
49-0460-00	CPA4092L	19" CERONIX LCD Upgrade Kit for Aristocrat Slant Top
49-0267-00	CPA4038L	19" CERONIX LCD Upgrade Kit for Aritocrat Upright with Glass

32" CERONIX LCD WITH TOUCH SCREEN FOR ATRONIC

New

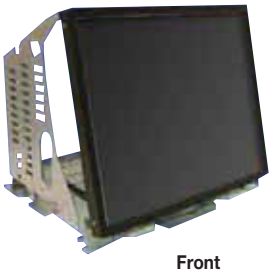
Front

Back

- Give new life to you old Atronic machine #65049946
- Kits are made with high grade Samsung panel and offers a better picture quality with no "Burn in", than traditional CRT's
- Includes touch screen and controller
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- LCD has a wide viewing angle (178° in all directions)
- Analog and digital inputs
- Supports up to 16.7 million colors
- 4-year warranty

Part Number	CERONIX No.	Description
49-0179-00	CPA3032	32" CERONIX LCD with Touch Screen For Atronic

17" CERONIX LCD UPGRADE KIT FOR ATRONIC


Front

Back

- CERONIX LCD kit is the authorized replacement for Atronic machines
- For 17" Atronic universal cabinet ref. no. 65018825 and 65024300
- Premium PVA panel with widest viewing angle available – 178˚
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- Units include a durable plastic injection molded bezel which provides for easy installation
- CERONIX LCDs are designed to meet the rugged 24/7 demands of the Gaming Industry
- Manufactured with premium grade components
- All kits are assembled in Auburn, California and carry the CERONIX 4-year warranty
- Designed to run cooler, last longer

Part Number	CERONIX No.	Atronic No.	Description
49-3917-00	CPA4077L	65018825	17" CERONIX Upgrade Kit without Touch Screen
49-4096-00	CPA4095L	65024300	17" CERONIX Upgrade Kit with Touch Screen

15” CERONIX LCD UPGRADE KITS FOR BALLY GAME MAKER PLUS

New

49-6671-00

49-0381-00

- Replace your old faded 13” CRT’s with bright new 15” LCDs
- Your game will look new and enhance play for your customers increasing the drop
- Premium SPVA panel with widest viewing angle available – 178 degrees
- Units include a durable plastic injection molded bezel which provides for easy installation
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- Can be installed on the floor within a few minutes
- Superior quality LCD panel with a bright high contrast image
- CERONIX LCDs are designed to meet the rugged 24/7 demands of the Gaming Industry
- Manufactured with premium grade components
- All kits are assembled in Auburn, California and carry the CERONIX 4-year warranty
- Designed to run cooler, last longer

Part Number	CERONIX No.	Description
49-6671-00	CPA3001	15” LCD Upgrade Kit for Bally Game Maker Plus Model V7000
49-0381-00	CPA4001	15” LCD Upgrade Kit for Bally Game Maker Plus Model V7200

CERONIX LCD UPGRADE KIT FOR BALLY UPRIGHT

49-0217-00

- The “Standard of the Gaming Industry” just got better with LCD upgrade kits for Gaming
- Made from high grade components, they offer a better picture quality with no “Burn in”, than a traditional CRT monitor
- CERONIX kits will update your older machines and give them a modern look
- Kits are direct replacements and can be installed within a few minutes on the casino floor
- They include the bezel, touch screen and controller
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- All kits are assembled in Auburn, California and carry the CERONIX 4-year warranty
- Designed to run cooler, last longer

Part Number	CERONIX No.	Description
49-2638-00	CPA4067L	17” LCD Upgrade Kit for Bally Upright
49-0217-00	CPA4021L	17” LCD Upgrade Kit for Bally Slant Top with Touch Screen
CPA4080L	CPA4080L	19” LCD Upgrade Kit for Bally Upright

CERONIX LCDS FOR BALLY WIDESCREEN GAMES

New

49-10732-00

49-10879-00

- Widescreen LCDs for all Bally cabinets with widescreen LCDs
- Kits are direct replacements and can be installed within a few minutes on the casino floor
- Touch screen included
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- All kits are assembled in Auburn, California
- Designed to run cooler, last longer
- 4-year warranty

Part Number	CERONIX No.	Description
49-10732-00	CPA3095	20” LCD Widescreen (16:9) Monitor for Bally
49-10879-00	CPA3097	26” LCD Widescreen (16:9) Monitor for Bally
49-11027-00	CPA3039	32” LCD Widescreen (16:9) Monitor for Bally

15” CERONIX LCD UPGRADE KIT FOR BALLY BAR TOP

New

49-4657-00

Back

- Give new life to you old Bally CRT bar tops
- Kits are made with high grade Samsung panel and offers a better picture quality with no “Burn in”, than traditional CRTs
- Units include a durable plastic injection molded bezel which provides for easy installation
- Includes touch screen and controller
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- Premium PVA panel with widest viewing angle available – 178˚
- Units also include a durable plastic injection molded bezel which provides for easy installation
- Can be installed on the floor within a few minutes
- CERONIX LCDs are designed to meet the rugged 24/7 demands of the Gaming Industry
- All kits are assembled in Auburn, California and carry the CERONIX 4-year warranty
- Designed to run cooler, last longer

Part Number	CERONIX No.	Description
49-4657-00	CPA4059L	15” CERONIX LCD Upgrade Kit for Bally Bar Top - 15 Degree Bezel
49-12091-00	CPA3002	15” CERONIX LCD Upgrade Kit for Bally Bar Top - 6 Degree Bezel

CERONIX INFRARED REMOTE CONTROL

New

- All CERONIX LCD Kits come with the IR sensor built in which allows you to adjust the picture easily
- This CERONIX remote control is needed to access this feature
- The remote control eases access to the OSD controller board in applications where the OSD controls are hard to reach
- Ideal for Bar Top kits
- A single remote control works on all CERONIX LCD Kits there is no need to have one for every monitor, just one for each technician

Part Number	Description
CPM2251	CERONIX Infrared Remote Control

15” CERONIX LCD UPGRADE KIT FOR IGT BAR TOP

New

Bottom View

49-2732-00

Top View

49-2606-00

49-2793-00

- Give new life to your old IGT CRT bar tops
- Kits are made with high grade Samsung panel and offers a better picture quality with no “Burn in”, than traditional CRTs
- Premium SPVA Panel with widest viewing angle available - 178°
- Units include a durable plastic injection molded bezel which provides for easy installation
- Includes touch screen and controller
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- LCD has a wide viewing angle (178° in all directions)
- Analog and digital inputs
- Supports up to 16.7 million colors
- 4-year warranty

Specifications	
Viewable size	15”
Native Resolution	1024 x 768
Aspect ratio	4:3
Contrast ratio	1000:1
Viewing angle	178˚ in Horizontal directions 178˚ in Vertical directions
Input connectors	RGB 15-Pin D-Sub and DVI-D
Frequency	31.5-80KHz Horizontal 56-75Hz Vertical
Dimensions (W x H x D)	11.625” x 13.8” x 3.674”

Part Number	Ceronix No.	Description
49-2732-00	CPA4054L	15” CERONIX LCD Upgrade Kit for IGT Bar Top - 15 Degree Bezel
49-2606-00	CPA4045L	15” CERONIX LCD Upgrade Kit for IGT Flush in Front Bar Top - 6 Degree Bezel
49-2793-00	CPA4022L	15” CERONIX LCD Upgrade Kit for IGT Recessed Bar Top Flat Bezel

CERONIX LCD UPGRADE KITS FOR IGT

49-0297-00

49-0310-00

- Update your older machines with a modern look and attract more players
- Premium PVA panel with widest viewing angle available – 178˚
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- Drop-in replacements for 17" and 19" games (slant-top and upright cabinets)
- Designed to run cooler, last longer
- Install on the casino floor in less than 15 minutes
- Kits are available with 19-pin connector, (Non AVP) or 25-pin Advanced Video Platform, (AVP connector)
- Kit includes touch screen, controller, bezel and if necessary a bracket
- All kits are assembled in Auburn, California and carry the CERONIX 4-year warranty

CERONIX LCD Upgrade Kits for IGT Games		
Part Number	**CERONIX No.**	
25-Pin AVP Kits with Touch Screen and Controller		
49-5110-00	CPA4049L	17" CERONIX LCD Upgrade Kit for IGT Upright
49-2713-00	CPA4062L	19" CERONIX LCD Upgrade Kit for IGT Game King + Upright
49-0258-00	CPA4008L	19" CERONIX LCD Game King Upright replacement
19-Pin Non-AVP Kits with Touch Screen and Controller		
49-2694-00	CPA4050L	17" CERONIX LCD Upgrade Kit for IGT Upright
49-2827-00	CPA4051L	17" CERONIX LCD Upgrade Kit for IGT Slant Top
49-2680-00	CPA4020L	19" CERONIX LCD Upgrade Kit for IGT Game King Upright
49-2835-00	CPA4097L	19" CERONIX LCD Upgrade Kit for IGT Slant Top
CERONIX LCD Upgrade Kits for IGT SDG Games		
49-8647-00	CPA4075L	17" IGT Game King Slant Top with SDG Alpha Software
49-8779-00	CPA4076L	19" IGT Game King Upright with SDG Alpha Software
CERONIX LCD Upgrade Kits for IGT Trimline Games		
49-0310-00	CPA3017	19" IGT Trimline with Touch Screen, Replaces IGT #69950904
49-0297-00	CPA3016	19" IGT Trimline with Glass, Replaces IGT #69951010

15" CERONIX LCD UPGRADE KITS FOR IGT PE AND PE PLUS

New

49-11326-00
Player's Edge Plus

- Take your 13" CERONIX CRT to a full 15" LCD!
- CERONIX 15" LCD upgrade kits for IGT Players Edge and Players Edge Plus games
- Premium high-contrast panels with 178 degree or 150 degree viewing angle
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- Units include a durable plastic injection molded bezel which provides for easy installation
- Kits are direct replacements and can be installed within a few minutes on the casino floor
- Protective glass included
- All kits are assembled in Auburn, California
- Designed to run cooler, last longer
- Standard CERONIX 4-year warranty

Part Number	Ceronix No.	Description
49-11326-00	CPA3004	15" CERONIX LCD Upgrade Kit for IGT Player's Edge Upright with 178º viewing angle
49-111766-00	CPA3003	15" CERONIX LCD Upgrade Kit for IGT Player's Edge Upright with 150º viewing angle
49-14029-00	CPA3005	15" CERONIX LCD Upgrade Kit for IGT Player's Edge Slant Top with 150º viewing angle

CERONIX LCD FOR IGT WIDESCREEN GAMES

New

- Widescreen LCDs for all IGT cabinets with widescreen LCDs
- Kits are direct replacements and can be installed within a few minutes on the casino floor
- Touch screen included
- Infrared remote control allows you easily make adjustments to the LCD picture (sold separately - Part No. CPM2251)
- All kits are assembled in Auburn, California
- Designed to run cooler, last longer
- 4-year warranty

Part Number	CERONIX No.	Description
49-12404-00	CPA3096	20.1" LCD USB Touch Monitor for IGT
49-12562-00	CPA3087	22" LCD USB Touch Monitor for IGT

LCD DISPLAY FOR KONAMI PLAYER TRACKING

New

- 6.2" LCD display for Komami Casino Management System (KCMS) Player Tracking System

Part Number	Description
49-9046-00	LCD Display for Konami Player Tracking System

19" LCD FOR LEISURE TIME POG

New

Front

Back

- Upgrade your POG upright with a new 19" LCD (replacement for your 19v/20" LCD CRT)
- CGA LCD with touch screen
- Infrared remote control allows you to easily make adjustments to the LCD picture (sold separately – Part No. CPM2251)
- Plastic bezel included
- Designed to run cooler, last longer
- CERONIX 4-year warranty

Part Number	CERONIX No.	Description
49-4060-00	CPA4063L	19" CERONIX LCD for Leisure Time POG

CERONIX LCD UPGRADE KITS FOR KONAMI

New

49-0237-00

49-2430-00

- Include touch screen and controller
- Premium PVA panels with widest viewing angle available – 178˚
- Units also include a durable plastic injection molded bezel which provides for easy installation
- Infrared remote control allows you easily make adjustment to the LCD picture (sold separately - Part No. CPM2251)
- Can be installed on the floor within a few minutes
- Superior quality LCD panel with a bright high contrast image
- CERONIX LCDs are designed to meet the rugged 24/7 demands of the Gaming Industry
- Manufactured with premium grade components
- All kits are assembled in Auburn, California and carry the CERONIX 4-year warranty
- Designed to run cooler, last longer

Part Number	CERONIX No.	Description
49-2637-00	CPA4089L	17" LCD Upgrade Kit for Konami Upright For Konami 530002
49-2430-00	CPA4081L	19" LCD Upgrade Kit for Konami Slant Top
49-12247-00	CPA4065L	19" LCD Upgrade Kit for Konami Top Unit
49-0237-00	CPA4028L	19" LCD Upgrade Kit - Replaces KT-LS19E4
49-12881-00	CPA3022	22" LCD for Konami Widescreen Games

17" CERONIX VGA CRT MONITOR FOR WMS UPRIGHT GAMES

- Direct replacement for Wells-Gardner and Kristel monitors
- Best picture in the industry!
- Complete with touch screen and controller
- Dual focus high resolution
- .27mm dot trio
- Full active auto color bias; Auto bright
- Rated operating temp 70˚ cent.

Part Number	CERONIX No.	Description
49-5239-00	CPA4090	17" CERONIX VGA CRT Monitor

LCD FOR WMS BLUEBIRD BONUS SCREEN

New

- 6.4” LG LCD # LB064V02-TD01 for bonus screen LCD
- Does not include touch screen
- Replacement touch screen 49-2824-00 (See Page 77)

Part Number	Description
49-9181-00	6.4” LCD for WMS Bluebird Machines without Touch Screen

CERONIX LCD UPGRADE KITS FOR WMS

New

49-2635-00

- The “Standard of the Gaming Industry” just got better with LCD upgrade kits for Gaming
- Made from high grade components, they offer a better picture quality with no “Burn in”, than a traditional CRT monitor
- Infrared remote control allows you easily make adjustments to the LCD picture (sold separately - Part No. CPM2251)
- CERONIX kits will update your older machines and give them a modern look
- Kits are direct replacements and can be installed within a few minutes on the casino floor
- They include the bezel, touch screen and controller
- All kits are assembled in Auburn, California and carry the CERONIX 4-year warranty
- Designed to run cooler, last longer

Part Number	CERONIX No.	Description
49-2635-00	CPA4064L	19” LCD Upgrade Kit for WMS Slant Top for WMS A-000648
49-2636-00	CPA4090L	17” LCD Upgrade Kit for WMS Upright

19” CERONIX LCD MONITOR FOR WMS BLUEBIRD

New

49-2769-00

49-0256-00

49-8386-00

- Drop-in replacement for WMS Bluebird LCD monitors
- Complete with touch screen and controller
- 19” viewable image size, 178 degree viewing angle (all directions)
- Samsung PVA (Patterned Vertical Alignment) mode produces great images
- Infrared remote control allows you easily make adjustments to the LCD picture (sold separately - Part No. CPM2251)
- 1280 x 1024 native resolution
- Input connectors: RGB 15-Pin D-Sub, DVI-D
- Power consumption: 40 Watts, 90 – 264VAC, 50/60Hz
- Dimensions: 15.85” W x 12.926” H x 2.468” D
- 4 year warranty

Part Number	CERONIX No.	Description
49-2769-00	CPA4082L	19” CERONIX LCD Monitor for WMS Bluebird 18.1” LCD (Includes Bezel)
49-8386-00	CPA3092L	19” CERONIX LCD Monitor for WMS Bluebird 19” LCD
49-0256-00	CPA4091L	19” CERONIX LCD Door Mount for WMS Slant Top

LCD PANEL FOR MULTIMEDIA GAMES PLAYER TRACKING

New

- For 6.2” Hitachi LCD panel # TX16D11VM2CAA
- Includes 4-wire touch screen

Part Number	Description
49-9592-00	6.2” LCD Panel for MultiMedia Games Player Tracking

CERONIX REPLACEMENT GAMING CRT MONITORS

New

- The Standard of the Gaming Industry
- Built with Automatic Color Adjustment so every monitor displays the same
- Includes a high efficiency switching mode power supply for lower power requirements
- Engineered to run cooler without a fan
- Designed for easy maintenance
- Service manual available upon request
- 2-year limited warranty
- See listing for corresponding models

Replacement for	Part Number	Description
Aristocrat	**49-2558-00**	17" VGA Slant Top Aristocrat #55251
	49-1881-00	17" VGA Slant Top with Touch Screen Aristocrat #L30700
Atronics	**49-2561-00**	17" LCD for Atronics Emotion No Touch Screen #65040181
	49-1866-00	17" VGA Universal Frame w/Touch Screen Atronics# 65024300
Bally Gaming	**49-2276-00**	17" VGA Upright w/Touch Screen for Bally Gaming
	49-5225-00	20" VGA Upright w/Touch Screen for Bally USA
IGT	**49-5187-00**	17" VGA Slant Top With Touch and Refurb Controller IGT# 699201401
	49-2574-00	17" VGA Slant Top With Touch and Refurb Controller IGT# 69922001 W/Gutter
	49-2575-00	17" VGA Upright With AVP Connector, Touch and Refurb Controller IGT# 69926401
	49-5398-00	19" VGA Slant Top With Touch and Refurb Controller IGT# 69923600
Konami	**49-6201-00**	17" SVGA Flat Screen Upright With Touch Screen Konami# 530002
	49-2430-00	19" SVGA Slant Top With Touch Screen Konami# 530056
WMS Gaming	**49-5239-00**	17" VGA Upright With Touch and Controller

PARTS FOR CERONIX MONITORS

Part Number	Ref. No.	Desciption
APM2184	APM2184	Inverter FIF1742-57A. Atronic 65050816
APM2199	APM2199	Power Supply 115w 5 & 12VDC Atronic 65033425
49-2713-00	CPA4062L	CERONIX LCD Display for IGT Upright 69926502
49-3014-00	CPA4100	Chassis for CERONIX 1492 Monitor IGT 75604790
49-3656-00	CPA4104	Replacement Chassis for CERONIX 2793 27" Monitor
CPA4104B	CPA4104B	2793 Main PCB, CGA D-Box.
49-3013-00	CPA4107	Chassis for 1493 Monitor Use with Orion CRT/Tube Only
49-5169-00	CPA4113	Video Board
49-5369-00	CPA4118	Chassis for CERONIX Monitor Model 2793
49-4059-00	CPA4128	Chassis for 20" CERONIX Monitor
49-5331-00	CPA4129	Main PCB Assembly VGA For CERONIX 1793 Monitor
49-5212-00	CPA4130	Isolation Transformer for CERONIX Monitor Auto Switching
49-6080-00	CPA4133	Chassis For CERONIX 2093 Vga Monitor For Aristocrat
49-5230-00	CPA4134	Videoboard For CERONIX Chassis Model 1493
49-3203-00	CPA4154	Main Board Used With Orion Crt
49-6207-00	CPA4156	Neckboard Only for CERONIX Cpa4157 1493 Series Monitor
49-3742-00	CPA4172	Replacement Chassis for 3693 36" Monitor
49-3013-10	CPA4200	Chassis for CERONIX 1493 Monitor Use with Chunghwa Tube Only
49-2599-00	CPA4211	Chassis for Konami 1993 CERONIX
49-6227-00	CPA4215	Main Chassis Assembly for 1793 E8 IGT Dual Focus Monitor
49-2803-00	CPA4229	17" VGA Main Board for Aristocrat Dual Focus
49-3829-00	CPA4233	Replacement Chassis for CERONIX 1493 14" Monitor
CPA4234	CPA4234	1493 CGA Video PCB..CPM2043 / CRT M34AFA13XO7
49-6202-00	CPA4235	Chassis for CERONIX 1493 E8
49-6131-00	CPA4243	Chassis Assy for CERONIX 1793 E8 for IGT Dual Focus Monitor
CPA4278	CPA4278	2093 VGA Main PCB
CPA4280	CPA4280	2093 Video Board for IGT 19" Upright Monitor
49-3141-00	CPA4281	Main Board for CERONIX CPA 4003 Monitor
49-2621-00	CPA4283	17" Main Chassis Board for 1793
49-2469-00	CPA4284	Monitor Chassis for CERONIX # 1793
49-5161-00	CPC1002	330 PFD, 100v Capacitor
49-5160-00	CPC1003	2200 PFD, 1kv Capacitor
49-5155-00	CPD1253	IN4937 Diode Ref# CPD 1253
49-5152-00	CPD1256	BZt03-D160+TF+A Temic 3w 160v Zener Diode
49-5154-00	CPD1264	FR205 2A 600v Fast Diode
49-5153-00	CPD1266	HER205
60-0025-00	CPI1400	LA7851 DIP Display Deflection Cir.
49-3003-00	CPI1401	Vertical Def Output LA7830 for CERONIX Monitor
60-0026-00	CPI1402	CA3224E IC CRT Auto Bias
49-5131-00	CPI1403	XRC5184 IS for PS Control
60-0046-00	CPI1405	LM324N IC Quad Op-Amp
49-5134-00	CPI1407	L7812CV Regulator +12v
49-3005-00	CPI1409	Custom Video IC XRC5346A for CERONIX Monitor CPI1409A
49-5133-00	CPI1415	LA7838 2.2app Vert Deflection W/TV/CRT Display Drive

Parts for CERONIX Monitors cont'd. on following page

Parts for CERONIX Monitors cont'd.

Part Number	Ref. No.	Desciption
CPM2050	CPM2050	17" Capacitive Touch Sensor
49-5196-00	CPM2052	Touchscreen Foam Tape 50ft Per Roll Sold By Roll
49-5195-00	CPM2053	Acetate Tape for Touchscreens 1" X 72 Yards Black P242
CPM2056	CPM2056	13" Touch Screen For Bally Game Master Machine
CPM2057	CPM2057	19' T/S #13-1931-01-NI-S..with Nov Ram 3M Microtouch
CPM2199A	CPM2199A	12v 60w Power Supply
49-2752-00	CPM2199A/C PS1917	Power Supply for CERONIX LCDs 12 Volt Output
CPM2200	CPM2200	17" CTKII Touch Screen with EXII CB3M 17-8421-221
49-2711-00	CPM2200K	17" Flat Touch Screen with Cont. for Atronics LCD 17-8421-221 Kit
CPM2201A	CPM2201A	24v 60w Power Supply
CPM2237A	CPM2237A	17"/19" Inverter 12vdc
CPM2253A	CPM2253A	Inverter for CERONIX 19" Slant Top LCD
CPM2293	CPM2293	IGT 17" Slant Top CERONIX LCD Bezel Rev. D RoHS 94vo PCABS
CPM2314	CPM2314	15" LCD T/S CERONIX Bezel
CPM2316	CPM2316	Bar Top 15" LCD Touchscreen CPM2316
CPM2316B	CPM2316B	15" ATO Touch Sensor
49-0172-00	CPM2316KA	Touch Screen with Snap On Bezel Att for CERONIX CPA4054I
CPM2316KF	CPM2316KF	15" Touch Screen with Nov RAM and Flat Bezel
CPM2317	CPM2317	17" CTKII Touch Screen with Nov RAM (3M 17-9191-206-01)
CPM2317K	CPM2317K	17" CTKII Touch Screen with Nov & Bezel
CPM2318K	CPM2318K	19" CTKII Touch Screen with Nov & Bezel
CPM2359K	CPM2359K	EXII Serial Controller Kit Sdg EXII 7720sc
CPP1700	CPP1700	17" Tft LCD Panel..Samsung LTM170E8-L01-L
CPP1705	CPP1705	15" Tft LCD Panel Spva. Samsung LTB150X1-L01
CPP1708	CPP1708	27" V Color Picture Tube Thompson A68AGA20X105
CPP1719	CPP1719	17" Flat Disp. Tube .27mm Chunghwa M41AJR93X46II
CPP1721B	CPP1721B	36" V Color Picture Tube
49-5318-00	CPP1722	17" Dual Focus Hi Res CRT for Newer 17" CERONIX Monitors
CPP1722A	CPP1722A	17" CRT .27mm with 3M Touch Screen
CPP1723	CPP1723	20" Picture Tube .78 mm..A48AGY13X87R 2H Yoke
49-2625-00	CPP1725	19" CRT with Yoke M46QCY261X112
49-5142-00	CPQ1301	MPS2907
49-5145-00	CPQ1302	MPSA64FC-A 30v .5a PNP FC-A
49-5139-00	CPQ1304	2SK1446LS 4.5a 450v Mos Fet
49-5130-00	CPQ1305	2SD1651 5a A.5 Kv Npn
49-5146-00	CPQ1306	2SC3675 Dip Pkg
49-5149-00	CPQ1307	2SC4159
49-5144-00	CPQ1308	2SC3467AE .1a 200v Npn Transistor
49-5143-00	CPQ1309	2SA1370
49-5148-00	CPQ1310	2SA1371
49-5138-00	CPQ1315	IRF 520 Fet 8A 100v
49-5141-00	CPQ1318	Transistor 2SC5690-PM-YB Transistor
49-5244-00	CPR0433	Relay for CERONIX Monitor 24v Coil 200v
49-3018-01	CPR0500	Pra Video Amplifier "B" for Red Green & Blue Gun
49-5127-00	CPR0501	J Pra Power Supply

Parts for CERONIX Monitors cont'd.

Part Number	Ref. No.	Desciption
49-3011-00	CPR0502	I Pra Horizontal Control
49-3009-00	CPR0503	H Pra Vertical Control
49-3010-00	CPR0504	G Pra Horizontal Width Control
49-3007-00	CPR0506	C Pra (Auto Bias) "Rev B"
49-5126-00	CPR0510	K Video Amplifier
49-6115-00	CPR0511	Blue Video Amplifier for CERONIX Monitor
CPS-1896	CPS-1896	Harness for 17" and 19" LCD Aristocrat
CPS1897	CPS1897	IGT LCD Harness 19 Pin
49-2684-00	CPS1899	Cable Assy 17" LCD, LVDS Atronic 65034073
CPS1918	CPS1918	WMS Bluebird LCD Harness RoHS
49-3004-00	CPT1500	Flyback Transformer for CERONIX Monitor
49-1383-00	CPT1507	Isolation Transformer R-65 XFR -75w
49-5137-00	CPT1516	FBT Meritron 31 Khz .75ma
49-6099-00	CPT1544	Flyback Transformer
49-5380-00	CPT1555	Dual Focus Flyback Transformer

LCD SCREEN PROTECTORS

New

TOP DETAIL VIEW

BOTTOM DETAIL VIEW

- High quality ¼" thick clear optical grade acrylic shield designed to protect the investment you made in your LCD
- Scratch resistant plastic protects those delicate LCD screens from almost any type of damage
- High grade components preserve High Def picture quality
- Easy installation takes less than 10 minutes
- Easy to clean with acrylic cleaner (non-ammonia based) and a microfiber cloth

Part Number	Description
49-5888-32	LCD Shield 30-32 Inch Screen Protector
49-5888-37	LCD Shield 36-37 Inch Screen Protector
49-5888-42	LCD Shield 40-42 Inch Screen Protector

LG COMMERCIAL GRADE LCDS

New

- High quality name brand and dependability you can trust from LG
- Available HDTVs (with Tuners) or Monitors (without Tuner)
- LG Commercial grade advantages
  - LCD is designed for public use
  - 2 or 3 Year "On-Site" Commercial Warranty vs. others with Consumer Warranty
  - Ability to disable or lock out front buttons of LCD avoiding situations that shut down your displays. For example, customers changing inputs, volume or simply pushing the power button
  - Access to prompt Commercial product phone support
- Power save feature option if you wish to turn on/off LCD at specific times of day or night
- HDTV Key Features
  - Multiple inputs for application flexibility
  - USB Cloning allows you to set settings on one HDTV and then save these to a USB drive. Then simply use that drive to setup all other monitors of that size the same way
  - Available as 720p or 1080p
  - Invisible Speaker System
  - Energy savings – Manually select your choice of the brightness levels
  - Public Display Settings – Provide you more control of options and limits to the display
  - 2 Year "On-Site" Warranty
- Monitor Key Features
  - Split Zoom (Self Video Wall Feature)
  - Narrow bezels
  - Designed to run both in landscape and portrait mode
  - Optional hidden speakers
  - 3 Year "On-Site" Warranty

Monitors

HDTVs

LCD Commercial Monitors

Part Number	M4212C-BA	49-5892-A42	49-5891-A47	49-5892-A52
Size	42"	42"	47"	52"
Brand	LG	LG	LG	LG
Aspect Ratio	16:9	16:9	16:9	16:9
Resolution	1366x768	1920x1080	1920x1080	1920x1080
HD	720p	1080p	1080p	1080p
Public Display Mode	Yes	Yes	Yes	Yes
USB Cloning	No	No	No	No
VESA (WxH)	600mm x 400mm	600mm x 400mm	800mm x 400mm	800mm x 400mm
VESA Thread	M4	M4	M6	M6
Stand (Degrees)	Optional (Non-Swivel)	Optional (Non-Swivel)	Optional (Non-Swivel)	Optional (Non-Swivel)
Brightness	500 cd/m2	700 cd/m2	500 cd/m2	500 cd/m2
Dynamic Contrast Ratio	-	-	-	1,600:1
Contrast Ratio	3,000:1	3,000:1	3,000:1	800:1
Built-In Tuner	-	-	-	-
HDMI/DVI Input(s) (DVI Adapter. Req.)	1	1	1	1
HD Component Input	-	-	-	2 (Y,Pb,PR) + L/R Audio
Component Input (BNC Connectors)	2 (Y,Pb,PR) + L/R Audio	2 (Y,Pb,PR) + L/R Audio	2 (Y,Pb,PR) + L/R Audio	-
L/R Audio / Composite Video Input(s)	1 Audio In 1 Audio Out (BNC)	1 Audio In 1 Audio Out (BNC)	1 Audio In 1 Audio Out (BNC)	1 Audio In 1 Audio Out (BNC)
RGB In (D-Sub 15 Pin) - PC	1 (1360 x 768)	1 (1920 x 1080)	1 (1920 x 1080)	1 (1920 x 1080)
RGB Out (D-Sub 15 Pin) - PC	1 (1360 x 768)	1 (1920 x 1080)	1 (1920 x 1080)	1 (1920 x 1080)
S-Video Input	1	1	1	1
RS-232C Input (Control/Service)	1 In & 1 Out	1 In & 1 Out	1 In & 1 Out	1 In & 1 Out
RJ45 (For Remote Jack Pack) RJP	-	-	-	-
LAN	-	1	-	-
Pro:Idiom Enabled	No	No	No	No
Video Wall Enabled	Yes (5 x 5 Max)	Yes (5 x 5 Max)	Yes (5 x 5 Max)	Yes (4 x 4 Max)
Speakers	Optional (external out)	Optional (external out)	Optional (external out)	Optional (external out)
Viewing Angle (Degrees)	178O/178O	178O/178O - Super IPS	178O/178O	178O/178O
Response Time	9ms	9ms	9ms	9ms
Life Span (Typical)	60,000 hrs	60,000 hrs	60,000 hrs	60,000 hrs
On/Off Timer	Yes	Yes	Yes	Yes
Voltage	110V-240V, 50/60 Hz	110V-240V, 50/60 Hz	110V-240V, 50/60 Hz	110V-240V, 50/60 Hz
Energy Star 3.0 Compliant	No	No	No	No
RoHS Compliant	Yes	Yes	Yes	Yes
Warranty	3-Year On-Site	3-Year On-Site	3-Year On-Site	3-Year On-Site
Narrow Bezel	Yes (29mm)	Yes (16.9mm)	Yes (29mm)	Yes (63mm)
Dimensions w/o Stand (WxHxD)	39.2" x 23.1" x 4.5"	38.1" x 22.0" x 5.0"	44.0" x 26.0" x 4.7"	50.52" x 30.16" x 4.62"
Dimensions with Stand (WxHxD)	N/A	38.1" x 25.0" x 5.0"	44.0" x 29.7" x 4.7"	N/A
Weight (W/O and With) Stand	46.7 lbs. / 55.6 lbs	41.2 lbs. / 44.1 lbs	63.5 lbs. / 72.4 lbs	99.2 lbs. / N/A
Shipping Weight	55.6 lbs.	48.0 lbs.	75.2 lbs.	121.25 lbs.

LCD Commercial HDTVs

Part Number	49-5887-A32	49-5887-A37	49-5887-A42	49-5890-A42	49-5887-A47	49-5887-52
Size	32"	37"	42"	42"	47"	52"
Brand	LG	LG	LG	LG	LG	LG
Aspect Ratio	16:9	16:9	16:9	16:9	16:9	16:9
Resolution	1366x768	1366x768	1366x768	1920x1080	1920x1080	1920x1080
HD	720p	720p	720p	1080p	1080p	1080p
Public Display Mode	Yes	Yes	Yes	Yes	Yes	Yes
USB Cloning	Yes	Yes	-	Yes	Yes	Yes
VESA (WxH)	100mm x 100mm	200mm x 100mm	200mm x 200mm	200mm x 200mm	200mm x 200mm	800mm x 400mm
VESA Thread	M4	M4	M6	M6	M6	M4
Stand (Degrees)	+20 / -20 (Swivel)	+20 / -20 (Swivel)	+20 / -20 (Swivel)	+20 / -20 (Swivel)	+20 / -20 (Swivel)	+20 / -20 (Swivel)
Brightness	500 cd/m2	500 cd/m2	500 cd/m2	500 cd/m2	500 cd/m2	450 cd/m2
Dynamic Contrast Ratio	50,000:1	50,000:1	50,000:1	50,000:1	50,000:1	15,000:1
Contrast Ratio	1,200:1	1,200:1	1,200:1	1,400:1	1,400:1	1,500:1
Built-In Tuner	ATSC/NTSC/QAM	ATSC/NTSC/QAM	ATSC/NTSC/QAM	ATSC/NTSC/QAM	ATSC/NTSC/QAM	ATSC/NTSC/QAM
HDMI/DVI Input(s) (DVI Adapter. Req.)	2	2	2	2	2	2
HD Component Input	1 (Y,Pb,PR) + L/R Audio	1 (Y,Pb,PR) + L/R Audio	1 (Y,Pb,PR) + L/R Audio	1 (Y,Pb,PR) + L/R Audio	1 (Y,Pb,PR) + L/R Audio	1 (Y,Pb,PR) + L/R Audio
Component Input (BNC Connectors)	-	-	-	-	-	-
L/R Audio / Composite Video Input(s)	1 Rear & 1 Side	1 Rear & 1 Side	1 Rear & 1 Side	1 Rear & 1 Side	1 Rear & 1 Side	1
RGB In (D-Sub 15 Pin) - PC	1 (1360 x 768)	1 (1360 x 768)	1 (1360 x 768)	1 (1920 x 1080)	1 (1920 x 1080)	1 (1920 x 1080)
RGB Out (D-Sub 15 Pin) - PC	-	-	-	-	-	-
S-Video Input	-	-	-	-	-	-
RS-232C Input (Control/Service)	1	1	1	1	1	1
RJ45 (For Remote Jack Pack) RJP	1	1	1	1	1	1
LAN	-	-	-	-	-	-
Pro:Idiom Enabled	No	No	No	No	No	Yes
Video Wall Enabled	No	No	No	No	No	No
Speakers	10 Watt x 2	10 Watt x 2	10 Watt x 2	10 Watt x 2	10 Watt x 2	10 Watt x 2
Viewing Angle (Degrees)	178O/178O	178O/178O	178O/178O	178O/178O	178O/178O	178O/178O
Response Time	6ms	6ms	6ms	6ms	6ms	5ms
Life Span (Typical)	60,000 hrs	60,000 hrs	60,000 hrs	60,000 hrs	60,000 hrs	60,000 hrs
On/Off Timer	Yes	Yes	Yes	Yes	Yes	Yes
Voltage	110V-240V, 50/60 Hz	110V-240V, 50/60 Hz	110V-240V, 50/60 Hz	110V-240V, 50/60 Hz	110V-240V, 50/60 Hz	110V-240V, 50/60 Hz
Energy Star 3.0 Compliant	Yes	Yes	Yes	Yes	Yes	No
RoHS Compliant	Yes	Yes	Yes	Yes	Yes	Yes
Warranty	2-Year On-Site	2-Year On-Site	2-Year On-Site	2-Year On-Site	2-Year On-Site	2-Year On-Site
Narrow Bezel	No	No	No	No	No	No
Dimensions w/o Stand (WxHxD)	31.7" x 20.8" x 3.1"	36.3" x 23.4" x 3.5"	40.5" x 25.8" x 3.4"	40.5" x 25.9" x 3.5"	44.9" x 28.5" x 3.9"	50.9" x 32.2" x 4.54"
Dimensions with Stand (WxHxD)	31.7" x 23.0" x 8.8"	36.3" x 26.0" x 11.7"	40.5" x 28.1" x 11.7"	40.5" x 28.2" x 11.7"	40.5" x 30.9" x 13.3"	50.9" x 35.1" x 13.5"
Weight (W/O and With) Stand	22.9 lbs / 25.4 lbs	27.3 lbs / 32.6 lbs	34.4 lbs / 39.7 lbs	35.7 lbs / 39.7 lbs	43.9 lbs / 49.6 lbs	80.0 lbs / 87.1 lbs
Shipping Weight	29.1 lbs.	40.2 lbs.	46.7 lbs.	46.7 lbs.	59.3 lbs.	110.3 lbs.

SHARP COMMERCIAL GRADE LCDS

New

- High quality name brand and dependability you can trust from SHARP
- HDTVs include Tuners
- SHARP Commercial grade advantages
  - LCD is designed for public use
  - 2 Year "On-Site" Commercial Warranty vs. others with Consumer Warranty
  - Ability to disable or lock out front buttons of LCD avoiding situations that shut down your displays. For example, customers changing inputs, volume or simply pushing the power button
  - Access to prompt Commercial product phone support
- HDTV Key Features
  - Multiple inputs for application flexibility
  - Available as 720p or 1080p
  - Integrated Speaker System
  - Energy savings – Manually select your choice of the brightness levels
  - Public Display Settings – Provide you more control of options and limits to the display
  - 2 Year "On-Site" Warranty

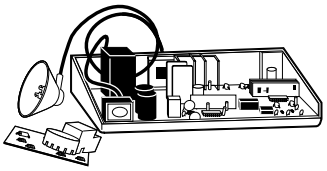
SHARP®

AQUOS®

Part Number	49-8911-2YEAR	49-8912-2YEAR	49-8914-2YEAR	49-8915-2YEAR
Size	32"	40"	46"	52"
Brand	SHARP	SHARP	SHARP	SHARP
Aspect Ratio	16:9	16:9	16:9	16:9
Resolution	1366x768	1920x1080	1920x1080	1920x1080
HD	720p	1080p	1080p	1080p
Public Display Mode	Yes	Yes	Yes	Yes
USB Cloning	No	No	No	No
VESA (WxH)	200mm x 200mm	400mm x 400mm	400mm x 400mm	400mm x 400mm
VESA Thread	M6 (12mm)	M6 (12mm)	M6 (12mm)	M6 (12mm)
Stand Included (Degrees)	Yes (0 Degrees)	Yes (0 Degrees)	Yes (0 Degrees)	Yes (0 Degrees)
Brightness	450 cd/m2	450 cd/m2	450 cd/m2	450 cd/m2
Built-In Tuner	ATSC/NTSC/QAM	ATSC/NTSC/QAM	ATSC/NTSC/QAM	ATSC/NTSC/QAM
HDMI/DVI Input(s) (DVI Adapter. Req.)	2	4	5	5
HD Component Input	2 (Y,Pb,PR) + L/R Audio	2 (Y,Pb,PR) + L/R Audio	2 (Y,Pb,PR) + L/R Audio	2 (Y,Pb,PR) + L/R Audio
Component Input (BNC Connectors)	-	-	-	-
L/R Audio / Composite Video Input(s)	1 Side	1	2	2
RGB In (D-Sub 15 Pin) - PC	1 (1360 x 768)	1 (1920 x 1080)	1 (1920 x 1080)	1 (1920 x 1080)
RGB Out (D-Sub 15 Pin) - PC	-	-	-	-
S-Video Input	1	1	1	1
RS-232C Input (Control/Service)	-	1 (9-Pin)	1 (9-Pin)	1 (9-Pin)
RJ45 (For Remote Jack Pack) RJP	-	-	-	-
LAN	-	-	-	-
Pro:Idiom Enabled	No	No	No	No
Video Wall Enabled	No	No	No	No
Speakers	10 Watt x 2	10 Watt x 2	10 Watt x 2	10 Watt x 2
Viewing Angle (Degrees)	176O/176O	176O/176O	176O/176O	176O/176O
Response Time	6ms	6ms	4ms	4ms
Life Span (Typical)	60,000 hrs	60,000 hrs	60,000 hrs	60,000 hrs
On/Off Timer	No	No	No	No
Voltage	120V, 60 Hz	120V, 60 Hz	120V, 60 Hz	120V, 60 Hz
Energy Star 3.0 Compliant	Yes	Yes	Yes	Yes
RoHS Compliant	Yes	Yes	Yes	Yes
Warranty	2-Year On-Site	2-Year On-Site	2-Year On-Site	2-Year On-Site
Narrow Bezel	No	No	No	No
Dimensions w/o Stand (WxHxD)	31.73" x 21.03"" x 4.17"	38.87" x 24.34" x 4.22"	43.83" x 28.16" x 3.95"	49.38" x 32.14" x 4.42"
Dimensions with Stand (WxHxD)	31.73" x 22.95"" x 9.77"	38.87" x 27.06" x 12.81"	43.83" x 30.48" x 12.81"	49.38" x 34.14" x 14.53"
Weight (W/O and With) Stand	26.5 lbs / 28.7 lbs	32.0 lbs / 38.6 lbs	41.9 lbs / 48.5 lbs	52.9 lbs / 61.7 lbs
Shipping Weight	35.3 lbs.	57.3 lbs.	61.7 lbs.	75.0 lbs.

REPLACEMENT KORTEK GAMING MONITOR PARTS

- Factory replacement parts for Kortek monitors that are used in IGT Games



Part Number	Description
KT-0020-00	Analog Chassis for KT1403N Monitor
KT-0011-00	Analog Chassis for KT1903NA Monitor
7007007	Chassis for KT1982NB-A01Upright Monitor
01-193145710	Chassis for KT1903N-A01 Monitor
49-6120-00	Chassis for KT1703V Monitor
49-2470-00	Chassis for KT1982-A05 Monitor
33-130001902	Flyback Transformer for KT1703N & KT1903N Monitor
33-137641801	Flyback Transformer for KT1782 Monitor
49-6087-00	Neck Board for KT1903N-A01 Monitor
49-2489-00	Analog Harmonic Board for KT1403NA Monitor

GENIE-ONE RGB PATTERN GENERATOR BY WELLS-GARDNER

- Five test patterns
- Tests MDA, CGA, EGA, VGA, SVGA, 8514/A and high resolution monitors
- Powered by 9 volt battery or external AC adaptor (not included)
- Two video connectors: Digital/TTL 9-D and Analog 15-HD
- Weight: 1 lb.
- Size: 1.5" x 3.8" x 5.7"
- Manufactured by Wells-Gardner

Part Number	Description
49-0734-00	Genie-One RGB Pattern Generator

MONITOR EXTENSION CABLE

- Used as VGA or SVGA monitor extension
- Extend your existing short monitor cable to provide useful flexibility
- DB15 Male on one end and DB15 Female on the other
- Ferrite cores on each end for noisesuppression
- Shielded cable with multi-coax construction provides a sharp, clear display
- 6' overall length
- 15 pin

Part Number	Description
55-0282-00	Monitor Extension Cable, 6'

REPLACEMENT MONITOR CHASSIS BOARDS

- For Suzo-Happ, Neotec, Electrohome and Wells-Gardner monitors

Part Number		Description
49-5376-00	A57-1003	Kristel 17" Used on WMS Gaming
49-2487-00	KT1903NA	Kortek Main 19" PCB for IGT (Analog)
49-2490-00	KT-1782F	Kortek Main 17" PCB for IGT 7007005 (Digital)
49-6120-00	KT1703V	Kortek 17"
01-193145710	KT1903N-A01	Kortek 19"
49-6077-0R	KT1903N-N52	Kortek Refurbished 19" Chassis
7007007	KT1982S	Kortek 19" for IGT Game King Plus

SLOT MONITOR REPAIR TRAINING CDs

- "How To" CDs provide everything you need to know to repair video slot monitors
- Step-by-step detailed repair describing parts to test and replace and upgrade information
- Repair steps demonstrated with both photos and video
- Includes a QRS (Quick Reference Sheet) showing component locations
- Sections on "Safety" and a "Components and Parts List" included

Part Number	Description
49-2687-00	Slot Monitor Training CD, Kortek for IGT Games
49-2688-00	Slot Monitor Training CD, Kristel for WMS
49-2689-00	Slot Monitor Training CD, Wells for WMS & Aristocrat
49-2690-00	Slot Monitor Training CD, Bally/Tatung & Bally Evo

MONITOR EXTENSION CABLES

- Allows added flexibility for technicians servicing CRTs on bar tops
- Service monitor and coin hoppers prior to re-installing into cabinets
- Durable, extra heavy-duty 6 ft. long spiral wrapped 16 AWG wire
- 19 pin cable works with most IGT monitors, 25 pin used with WMS monitors

48-1835-00

48-1836-00

Part Number	Description
49-1835-00	19 Pin Extension Cable for IGT
49-1836-00	25 Pin Extension Cable for WMS

UNIVERSAL FLAT WALL MOUNT
For 23” to 46” LCD Flat Panel Screens

New

- Universal mount fits screens with mounting patterns up to 17.73” W x 12.94” H
- Open wall plate architecture allows for total wall access
- Ultra-slim design holds screen only 1.2” from the wall for a low-profile application
- Horizontal screen adjustment of up to 6” (depending on screen model) for perfect screen placement
- Universal brackets easily hook onto wall plate for fast installation
- Mounts to wood studs, concrete, cinder block or metal studs (metal stud accessory required)
- Comes with Peerless’ Sorted-for-You™ fastener pack with all necessary screen attachment hardware
- Integrated security options available
- Includes theft resistant hardware for attaching screen to mount
- UL listed
- Warranty: Limited 5-year

Part Number	Description
49-6442-00	Universal Flat Wall Mount for 23” to 46” LCDs

Specifications	
Dimensions (WxHxD)	19.37” x 13.75” x 1.2” (49.19 x 34.9 x 3 cm)
Load Capacity	150 lb (68 kg)
Weight	3.5 lb (1.6 kg)
Finish	Black scratch-resistant fused epoxy
Accessories	Metal Stud Accessory Kit (ACC 415)
Package Contents	Wall plate, universal brackets, mounting and screen attachment hardware

UNIVERSAL FLAT WALL MOUNT
For 32” to 50” LCD and Plasma Flat Panel Screens

New

- Universal mount fits screens with mounting patterns up to 29.23” W x 17.05” H
- Open wall plate architecture allows for total wall access
- Ultra-slim design holds screen only 1.7” from the wall for a low-profile application
- Horizontal screen adjustment of up to 8” (depending on screen model) for perfect screen placement
- Universal brackets easily hook onto wall plate for fast installation
- Mounts to wood studs, concrete, cinder block or metal studs (metal stud accessory required)
- Comes with Peerless’ Sorted-for-You™ fastener pack with all necessary screen attachment hardware
- Integrated security options available
- Includes theft resistant hardware for attaching screen to mount
- UL listed
- Warranty: Limited 5-year

Part Number	Description
49-6443-00	Universal Flat Wall Mount for 32” to 50” LCDs

Specifications	
Dimensions (WxHxD)	30.87” x 18” x 1.7” (78.4 x 45.7 x 4.3 cm)
Load Capacity	175 lb (79.3 kg)
Weight	5.47 lb (2.51 kg)
Finish	Black scratch-resistant fused epoxy
Accessories	Metal Stud Accessory Kit (ACC 415)
Package Contents	Wall plate, universal brackets, mounting and screen attachment hardware

UNIVERSAL FLAT WALL MOUNT
For 37” to 60” LCD and Plasma Flat Panel Screens

New

- Universal mount fits screens with mounting patterns up to 32.48” W x 17.05” H
- Increased screen compatibility includes VESA® 800 mm x 400 mm mounting hole patterns
- Open wall plate architecture allows for total wall access
- Ultra-slim design holds screen only 1.2” from the wall for a low-profile application
- Includes deep screen adapters to hold screen 1.7” from wall for easier cable management access
- Horizontal screen adjustment of up to 8” (depending on screen model) for perfect screen placement
- Universal brackets easily hook onto wall plate for fast installation
- Mounts to wood studs, concrete, cinder block or metal studs (metal stud accessory required)
- Comes with Peerless’ Sorted-for-You™ fastener pack with all necessary screen attachment hardware
- Integrated security options available
- Includes theft resistant hardware for attaching screen to mount
- UL listed
- 5-year limited warranty

Part Number	Description
49-10154-00	Universal Flat Wall Mount for 37” to 60” LCDs

Specifications	
Dimensions (WxHxD)	34.12” x 18” x 1.2” (86.70 x 45.70 x 3 cm)
Load Capacity	200 lb (90.7 kg)
Weight	6.76 lb (3 kg)
Finish	Black scratch-resistant fused epoxy
Accessories	Metal Stud Accessory Kit (ACC 415)
Package Contents	Wall plate, universal brackets, mounting and screen attachment hardware

UNIVERSAL TILT WALL MOUNT
For 23” to 46” LCD Flat Panel Screens

New

- Universal mount fits screens with mounting patterns up to 18” W x 12.94” H
- Open wall plate architecture allows for total wall access
- Adjustable up to 15° of forward tilt and -5° backward tilt for optimal viewing angle
- Pre-tensioned universal tilt screen adapters allow for tilt adjustment without the use of tools
- Easy-grip lever locks the screen position into place
- Optional IncreLock™ feature offers fixed angles of -5°, 0°, 5°, 10°, 15°
- Horizontal screen adjustment of up to 6” (depending on screen model) for perfect screen placement
- Universal screen adapters easily hook onto wall plate for fast installation
- Mounts to wood studs, concrete, cinder block or metal studs (metal stud accessory required)
- Comes with Peerless’ Sorted-for-You™ fastener pack with all necessary screen attachment hardware
- Integrated security options available
- Includes theft resistant hardware for attaching screen to mount
- UL listed
- 5-year limited warranty

peerless® MOUNTS

Part Number	Description
49-6444-00	Universal Tilt Wall Mount for 23” to 46” LCDs

Specifications	
Dimensions (WxHxD)	19.37” x 13.75” x 2.6” (49.2 x 34.9 x 6.6 cm)
Load Capacity	150 lb (68 kg)
Weight	6.32 lb (2.86 kg)
Finish	Black scratch-resistant fused epoxy
Accessories	Metal Stud Fastener Kit (ACC415)
Package Contents	Wall plate, universal screen adapters, mounting and screen attachment hardware

UNIVERSAL TILT WALL MOUNT
For 32” to 50” LCD and Plasma Flat Panel Screens

New

- Universal mount fits screens with mounting patterns up to 29.5” W x 17.67” H
- Open wall plate architecture allows for total wall access
- Adjustable up to 15° of forward tilt and -5° backward tilt for optimal viewing angle
- Pre-tensioned universal tilt bracket allows for tilt adjustment without the use of tools
- Easy-grip lever locks the screen position into place
- Optional IncreLock™ feature offers fixed tilt angles of -5°, 0°, 5°, 10°, 15°
- Horizontal screen adjustment of up to 8” (depending on screen model) for perfect screen placement
- Universal screen adapters easily hook onto wall plate for fast installation
- Mounts to wood studs, concrete, cinder block or metal studs (metal stud accessory required)
- Comes with Peerless’ Sorted-for-You™ fastener pack with all necessary screen attachment hardware
- Integrated security options available
- Includes theft resistant hardware for attaching screen to mount
- UL listed
- 5-year limited warranty

peerless® MOUNTS

Part Number	Description
49-6445-00	Universal Tilt Wall Mount for 32” to 50” LCDs

Specifications	
Dimensions (WxHxD)	30.87” x 18.5” x 2.6” (78.4 x 46.9 x 6.3 cm))
Load Capacity	175 lb (79 kg)
Weight	7.94 lb (3.6 kg)
Finish	Black scratch-resistant fused epoxy
Accessories	Metal Stud Fastener Kit (ACC415)
Package Contents	Wall plate, universal screen adapters, mounting and screen attachment hardware

UNIVERSAL TILT WALL MOUNT

For 37” to 60” LCD and Plasma Flat Panel Screens

New

- Universal mount fits screens with mounting patterns up to 32.75” W x 17.67” H
- Increased screen compatibility includes VESA® 800 x 400 mm mounting hole pattern
- Open wall plate architecture allows for total wall access
- Adjustable up to 15° of forward tilt and -5° backward tilt for optimal viewing angle
- Pre-tensioned universal tilt screen adapters allow for tilt adjustment without the use of tools
- Easy-grip lever locks the screen position into place
- Optional IncreLok™ feature offers fixed tilt angles of -5°, 0°, 5°, 10°, 15°
- Horizontal screen adjustment of up to 8” (depending on screen model) for perfect screen placement
- Universal screen adapters easily hook onto wall plate for fast installation
- Mounts to wood studs, concrete, cinder block or metal studs (metal stud accessory required)
- Comes with Peerless’ Sorted-for-You™ fastener pack with all necessary screen attachment hardware
- Integrated security options available
- Includes theft resistant hardware for attaching screen to mount
- UL listed
- 5-year limited warranty

peerless® MOUNTS

Part Number	Description
49-6446-00	Universal Tilt Wall Mount for 37” to 60” LCDs

Specifications	
Dimensions (WxHxD)	34.1” x 18.5” x 2.6” (86.6 x 46.9 x 6.6 cm)
Load Capacity	8.28 lb (3.75 kg)
Weight	7.94 lb (3.6 kg)
Finish	Black scratch-resistant fused epoxy
Accessories	Metal Stud Fastener Kit (ACC415)
Package Contents	Wall plate, universal screen adapters, mounting and screen attachment hardware

PULL-OUT SWIVEL WALL MOUNT

For 26” to 50” LCD & Plasma Flat Panel Screens

New

- VESA 100 and 200 x 100 compatible (PLP or LC model adapter plate required for non-VESA screens)
- Pull-out swivel with up to 45° rotation depending on screen size
- Locking tab provides optional swivel restriction to one side
- 2.25” deep in closed position, up to 10.75” fully extended
- 0°, 5° or 10° lockable incremental tilt
- +/-1° roll for horizontal screen alignment during installation
- Built-in cord management
- Lock Key™ installation tool secures arms for screen installation
- Lock-out screw prevents unwanted extension
- Mounts to 16” wood studs, concrete, cinder block
- Includes mounting and screen attachment hardware (theft resistant hardware for attaching screen to mount)
- UL Listed
- 5-year limited warranty

peerless® MOUNTS

Part Number	Description
49-6447-00	Pull-Out Swivel Mount for 26” to 50” LCDs

Specifications	
Dimensions (WxHxD)	21” x 9” x 2.25” (53.3 x 22.9 x 5.7 cm)
Load Capacity	UL listed to 150 lb (68 kg)
Weight	20.1 lb (9.1 kg)
Finish	Black scratch-resistant fused epoxy
Accessories	Metal Stud Accessory Kit (ACC 415)
Package Contents	Package Contents Mount, Lock Key™ installation tool, locking swivel tab, mounting and VESA 100 and 200x100 screen attachment hardware

ARTICULATING WALL ARM
For 22” to 40” LCD Flat Panel Screens

New

- Fits 22” to 40” LCD screens
- Pre-assembled for fast and easy installation
- Comes with VESA® 75/100, 200 x 100, 200 x 200 mm screen adapter plate
- Non-VESA adapter plates available (sold separately)
- Three pivot points for virtually limitless adjustment that can be tightened to restrict movement
- 20° of smooth, continuous, one-touch tilt (5° up, 15° down)
- Offers up to 180° of swivel (depending on screen model)
- Adjustable roll of 7° in either direction allows screen to be easily leveled
- Anodized aluminum finish available in black or silver
- Built-in internal cord management conceals wires for a clean look
- Includes hardware for installation to a single wood stud or concrete
- 5-year limited warranty

peerless® MOUNTS

Part Number	Description
49-6448-00	Articulating Wall Arm for 22” to 40” LCDs

Specifications	
Dimensions (WxHxD)	8.75”-11.63” x 9.35” x 3.44”-20.2” (22.22 - 29.54 x 23.74 x 8.73 - 51.3 cm)
Load Capacity	80 lb (36.28 kg)
Weight	7.9 lb (3.58 kg)
Finish	Black anodized aluminum
Accessories	Metal Stud Wall Plate (WSP models) Security Screen Fasteners (ACC919
Package Contents	Adjustable arm, VESA® 75/100, 200 x 100 and 200 x 200 screen adapter, mounting hardware

ARTICULATING WALL ARM
For 32” to 50” LCD and Plasma Flat Panel Screens

New

peerless® MOUNTS

- 1” clearance per channel for clean and simple cable management
- 10.75” of horizontal adjustability for ideal screen placement
- Arm extends 27.8”(plus thickness of screen adapter)
- UL listed for strength and reliability
- Color-coded wall access ports in wall plate provide optimal electrical access
- ±2.5° roll to level the screen horizontally
- +15/-5° of one-touch tilt for easy screen positioning
- All-metal load bearing construction provides strength and clean looks
- Landscape and portrait mounting capability
- 5-year limited warranty

Part Number	Description
49-6449-00	Articulating Wall Arm for 32” to 52” LCDs

Specifications	
Dimensions (WxHxD)	832.87” x 18.25” x 6.8”-29.8” (83.48 x 46.35 x 17.27-75.69 cm)
Load Capacity	150 lb (68 kg)
Weight	34.1 lb (15.5 kg)
Finish	High gloss black, scratch resistant fused epoxy
Accessories	ACC615: Metal Stud Togglers (for up to 110 lb flat panels)
	SCS222: Double Stud Dual Component Shelf System
	SCS212: Dual Component Shelf System
	SCS221: Double Stud Component Shelf
	SCS211: Component Shelf
	ACC924/926: Cable Management Wall Channel
	ACC925: Security Fasteners
	MSA-101 (S): Center Channel Speaker Mount
	MSA-301 (S): Center and Side Speaker Mount
Package Contents	Wall plate, articulating arm, VESA® adapter plate, universal brackets (U models), mounting and screen attachment hardware

FLAT PANEL CEILING MOUNT FOR 32” TO 60” LCD AND PLASMA SCREENS

New

- Offers a straight column from the ceiling attachment point to the flat panel screen
- Ideal for sports facilities, airports, lobbies or retail environments
- It delivers 20° of adjustable tilt and 360° of swivel
- Ships complete with 2.5’ fixed length extension column and theft resistant security fasteners
- Model-specific or Universal style PLP adapter plates are available to match your screen make and model, both are sold separately
- For screens larger than 60” a dedicated plate must be purchased

FEATURES:

- 0° to 20° adjustable tilt and 360° swivel
- Screen mounts vertically or horizontally
- Uses standard 1 1/2” – 11.5 NPT schedule 40 pipe
- Additional length can be added for lowering
- Theft-resistant security fasteners secure the screen to the mount
- Sold with or without ceiling plate
- Cord management
- Complete detailed installation instructions for wood and concrete structures

Part Number	Description
49-6450-00	Flat Panel Ceiling Mount for 32” to 60” LCDs

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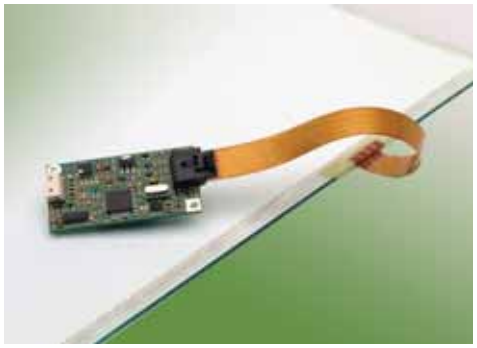
The Gaming Touch Standard

3M™ MicroTouch™ System SCT3250EX

(previously known as the 3M™ MicroTouch™ ClearTek™ II Touch System)

The 3M MicroTouch System SCT3250EX is the result of more than 20 years of product development, is the global standard for surface capacitive touch technology and is a preferred solution for applications that value fast, accurate and reliable touch response, especially in contaminant-prone environments.



- Fast, accurate and reliable touch response
- 3M-proprietary hard coat provides premium surface wear resistance for heavy-use applications
- Operation is unaffected by on-screen contaminants
- Resilient top coat creates a scratch-resistant, easy-glide surface
- Excellent light transmission of 91.5% provides vibrant optical characteristics with optimal anti-glare properties
- Solder less, low-profile design and robust tail simplifies integrations and improves sealability.

Visit www.3m.com/touch for more product information.

The New Las Vegas Strip

Command™ Strips for Touch Sensors

Helps save slot technicians time and casinos money with a quick-to-remove and easy-to-integrate solution for touch displays.

Quick to Remove

When a touch sensor needs to be removed, use Command's "stretch release technology" by pulling the "pull tab" at a 90 degree angle so the sensor pops free in seconds. And, these "no mess" strips don't leave an adhesive residue that can be difficult to clean up.

Easy to Integrate

Using "peel and stick" Command Strips, a touch sensor can be easily integrated to a display in minutes and quickly put back into service.

Watch Video

See how easy it is to use Command Strips for Touch Sensors to integrate sensors and to remove sensors at www.3m.com/touchstripsHapp. Seeing is believing. Be sure to sign up for the Command Strips Sample Kit.

NOTICE: Command™ Strips for Touch Sensors were developed for use with the 3M™ MicroTouch™ System SCT3250EX (previously known as the 3M™ MicroTouch™ ClearTek™ II System). Customers must determine whether Command Strips are suitable for use with their particular touch sensor and in their intended application.

MicroTouch™

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3M

3M MICROTOUCH CLEARTEK™ TOUCH SCREENS

Extended Durability for High-use Applications

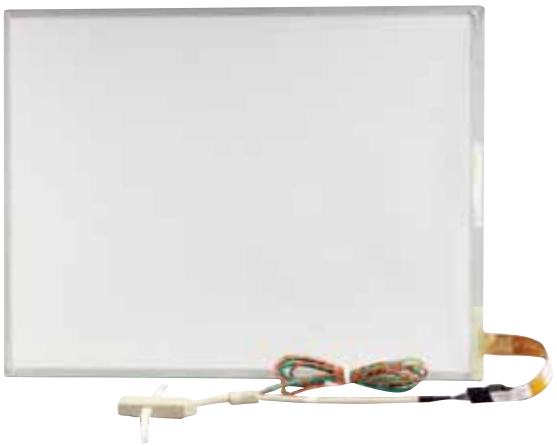
MicroTouch™ ClearTek™ capacitive touch screens, manufactured by 3M Touch Systems, are the preferred touch solution for applications that require fast and accurate touch performance. The flat capacitive Profile sensor incorporates advanced construction and production techniques that result in a thin, sleek design which provides easy installation into flat panel displays and flat CRTs. The robust touch characteristics of ClearTek are attributed to its transparent overcoat, which significantly increases the physical durability of the surface by allowing it to resist scratches and abrasions. Popular applications include kiosks, ATM installations, point-of-sale, industrial equipment, gaming machines, and vending.

Making the Difference

ClearTek capacitive touch technology provides accurate and sensitive response to the user's touch while offering outstanding durability. A ClearTek capacitive touch screen provides scratch-resistance and contaminant-resistance to dirt, liquids, and harsh chemicals. A ClearTek sensor with Industrial Etch has been tested in a laboratory environment to withstand over 225 million mechanical touches without noticeable degradation to the surface.

MicroTouch™ 3M

AUTHORIZED DISTRIBUTOR



Features

- Transparent coating significantly increases durability by resisting scratches and abrasions
- Performance unaffected by everyday contaminants in the environment
- Accurate and fast touch response
- Narrow border for easy integration
- Connects to the new EX II electronics platform
- Taped wires

Part Number	Sensor Size	Used On	3M Ref. No.
49-2873-00	6.71"	Bally	17-8091-206
49-2824-00	6.71"	WMS	17-8091-223
49-2874-00	15.68"	IGT	17-8031-203
49-5099-10	15.68"	Merit	17-8031-206
49-14536-00	15.7"	IGT	17-9231-206
49-10297-00	17.2"	IGT	17-9271-206
49-2879-00	17.34"	IGT, Merit	17-8901-206
49-2455-00	17.54"	Atronic, JVL	17-8421-221
49-1917-00	18"	Konami	13-5331-01MA
49-2271-00	18.4"	Merit	17-8211-206
49-2296-00	18.86"	WMS	17-8351-223
49-2586-00	18.87"	-	17-8351-204
49-14707-00	19"	IGT	17-8651-203
49-14879-00	19"	IGT	17-9141-206
49-2877-00	19"	IGT	17-8051-203
49-2931-00	19.06"	Merit	17-8411-206
49-2675-00	19.71"	Aristocrat, Bally, Cadillac Jack, Konami	17-8051-206
49-2876-00	19.71" USB Mated Pair	IGT	17-8051-217
49-2588-00	19.73"	Bally	17-8551-204
49-2587-00	19.74"	WMS, Konami	17-8551-223
49-2880-00	20.1" Wide Format	IGT	17-9261-206
49-2872-00	20.27"	Bally	17-9031-206
49-2882-00	20.65"	WMS	17-8441-223
49-2905-00	20.7"	IGT	17-9321-206
49-15226-00	22"	IGT	17-9331-206
49-2878-00	22"	IGT	17-9311-206
49-14366-00	22.37"	WMS	17-9311-226
49-2883-00	22.37"	WMS	17-9311-227
49-2865-00	26.28"	Bally	17-8931-206
17-8951-206	31.81"	Bally	17-8951-206

3M TOUCH SCREEN CONTROLLERS

MicroTouch™ 3M

49-1746-00

Part Number	Description
49-1746-00	3M Microtouch Controller EXII-1720SC
49-1746-01	3M Microtouch Controller EXII-5710UC
49-2206-00	3M Microtouch Controller EXII-1010SC

TOUCH SCREEN FOR IGT NEXGEN PLAYER TRACKING SYSTEM

New

- Replacement 4-wire touch screen for IGT NexGen player tracking system that uses the Hitachi 6.2" LCD panel TX16D11VM2CAA.
- Also used by Aristocrat, Konami & Multimedia Gaming

Part Number	Description
91-1058-00	Touch Screen for IGT NexGen Player Tracking System

3M MICROTOUCH 6.71" TOUCH SCREEN FOR WMS

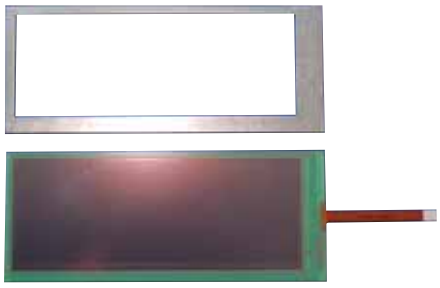
New

MicroTouch 3M

- Used on WMS Blue Bird reel slot upright games
- Includes Serial touch controller (EXII-7720SC)
- ClearTek™ II resilient top coat provides smooth, easy glide surface while offering durable scratch resistance
- Accurate and fast touch response
- Performance unaffected by everyday contaminants in the environment

Part Number	Description
49-2824-00	3M MicroTouch 6.71" Touch Screen for WMS

TOUCH SCREEN FOR BALLY I-VIEW PLAYER TRACKING SYSTEM



- Replacement 5-wire touch screen with metal housing
- For use with 1st generation (IDW) systems

Part Number	Description
49-0631-00	Touch Screen for Bally I-View Player Tracking System

REFURBISHED IGT TOUCH SCREEN CONTROLLER

New

- For use with IGT machines
- Units are reconditioned by the Service Center
- Controllers are 12 and 9-pin, check with your sales rep for availability

Part Number	Description
49-5238-0R	Refurbished IGT Controller 12 & 9-pin

TOUCH INTERNATIONAL TOUCH SCREENS

New

- Screens are high impact and scratch resistant
- Ideal for use in Amusement, Gaming and Kiosk Industry
- No drift or recalibration required
- Screens are unaffected by environmental factors; moisture, rain or temperature
- Surface finishes are anti-glare and anti-reflective
- Touch Durability: 50 million touches in a single location
- Warranty is 5-years standard (Excluding vandalism)

Part Number	Description
49-2710-00	19" Touch International Flat Touch Screen
49-2692-00	17" Touch International Flat Touch Screen
49-2271-00	17" Touch International Flat Touch Screen for Merit
49-2775-00	15" Touch International Flat Touch Screen
49-5099-00	15" Touch International Flat Touch Screen for Merit

TouchInternational experience matters

3M COMMAND™ STRIPS FOR TOUCH SENSORS

New

Command Strips for Touch Sensors saves display integrators and slot technicians time and money with a quick removal and easy remounting solution for their touch displays.

Once a touch sensor is mounted with Command Strips for Touch Sensors, it takes only seconds to remove a damaged touch sensor or separate the working sensor from the damaged LCD display, and then only minutes to remount it. Compared to today's industry average of 45-60 minutes for removing and remounting a touch sensor, that's time and money saved.

Using these "peel and stick" strips, a touch sensor can be easily mounted to a display in minutes and put back in service. When a touch sensor needs to be removed, Command's "stretch release technology" allows technicians to just pull each strip's tab at a 90 degree angle and the sensor pops free in seconds. And, these "no mess" strips don't leave an adhesive residue that can be difficult to clean up.

Command Strips for Touch Sensors offer superior adhesion in high temperature environments such as gaming machines, kiosk enclosures, and non-air conditioned warehousing. And, the low temperature properties of the adhesive are ideally suited for machine storage or shipping in cold climates.

With more than 25 years touch experience and with millions of touch systems in the field, 3M continues to deliver products and processes that make touch display integration easier and more efficient. By using Command Strips for Touch Sensors, slot managers can save time and money in their gaming machine maintenance operations.

Recommended Applications

- Slot Machines
- Bartop Games
- Video Poker Games
- Casino Gaming
- Kiosks
- Amusement Games

Pressure-Sensitive Adhesive Strips

- Wide temperature range -40˚C to 70˚C provides excellent holding strength in both operating and storage environments
- Water-resistant adhesive allows use in hot, wet and humid conditions
- High adhesion characteristics ensures secure touch sensor-to-display bond over time

Command Stretch Release Technology

- Easy pull tabs enable quick and easy removal of adhesive strips
- Easy-to-remove strips don't leave an adhesive residue that can be difficult to clean up

Peel and Stick Application

- Peelable strip liners allow for easy positioning and effective touch sensor mounting
- Liners allow for easy handling of adhesive strips to speed integrations and minimize waste

Foam-Backing

- Adhesive-backed foam allows for secure bonding to smooth out semi-rough surfaces

Sheet of 16 Command Strips™ (figure 1)

Command Strips™ Applied (figure 2)

Mounted Touch Screen (figure 3)

Command Strips™ Removal (figure 4)

Quick Start Guide:

Mounting

To begin, separate individual strips from the larger sheet (figure 1).
Place Command Strips around full perimeter of the display frame starting in the four corners. Then fill in the remaining spaces with additional Command Strips (figure 2).
The Command Strips adhesive is the same on both sides so it makes no difference which side is placed on the display frame.
The pull tabs must remain outside of the physical frame of the display and away from the viewing area of the LCD, so the user can pull on the tab to remove the strip if replacement is necessary.
Be sure to leave 1-3mm gaps in the corners to allow for venting.
Remove the release liner on the Command Strips to allow for placement of the touch sensor. Place the touch sensor on top of the Command Strips by carefully aligning the corners of the touch sensor to fit properly with the corners of the LCD frame (figure 3).

Removing

Grab the Command Strips "pull tab" with the forefinger and thumb. Pull straight out at a 90 degree angle from the sensor (figure 4), but in the same plane as the Command Strip. Repeat this sequence until all the Command Strips are removed. Lift off the touch sensor. Do not rest your hand on the sensor while removing the Command Strips.
If the pull tab end breaks, simply use a utility knife or small screwdriver to pull out the broken end and pull the end.

Sold in sheets of 16 strips.

Part Number	Description
49-8002-00	Command™ Strips for Touch Sensors

TOUCH SCREEN TAPE KIT

- Contains everything needed to tape a 13" or 19" touch screen
- Includes black foam tape, black double face tape, black cloth gasket and alcohol

Part Number	Description
49-4035-00	Touch Screen Tape Kit

RUBBER ADHESIVE TAPE FOR TOUCHSCREENS

- Holds the mask to the monitor
- Double sided, black rubber adhesive
- 1/2” wide x 1/32” thick
- Sold per roll, 36 yards per roll

Part Number	Description
43-1104-10	Rubber Adhesive Tape for Touch Screens

ACETATE TAPE FOR TOUCHSCREENS

- Used to seal the touch screen and the CRT
- 1” wide black tape
- Adhesive on one side
- Sold per roll, 216 ft per roll

Part Number	Description
49-5195-00	Acetate Tape for Touchscreens

TOUCHSCREEN FOAM TAPE

- The tape of choice!
- Foam sealing tape is used to seal the entire overlay at the edges
- Save time and tape - because the tape is wide you only have to make one revolution around screen
- .032” thick
- Color: Black
- Sold per roll, 50 ft per roll

Part Number	Description
49-5196-00	Touchscreen Foam Tape

3M™ CLEAR TOUCH SCREEN TAPE

- Same adhesive tape used on 3M™ Microtouch Cleartek™ Touch Screens
- Transparent polyester film tape with acrylic adhesive
- Chemical resistant, also used for splicing, holding, sealing and protecting
- 1/2” wide x 72 linear yard roll, 1.9 mil
- Sold per each, available 12 rolls per box

Part Number	Description
39-0197-00	3M Translucent Touchscreen Tape

FOAM ADHESIVE TAPE FOR TOUCH SCREENS

- Provides a “dust gasket” around monitor
- Single sided, gray low density foam with acrylic adhesive
- Sold per roll, 18 yards per roll

Part Number	Description
43-1103-10	Foam Adhesive Tape 1/2”W x 1/4” Thick
43-1103-34	Foam Adhesive Tape 3/4”W x 1/4” Thick

POWER SUPPLY FOR WMS BLUEBIRD

New

- For use in WMS Bluebird slot machines
- UL recognized, TUV and CE approved
- 1-Year warranty

AC Input: 115V ~ 10A; 230V ~ 5A
Frequency: 50 - 60Hz
DC Output:
+5V / 15A (red)
+12V / 13A (yellow)
+3.3V / 8A (orange)
+15V / 6A (blue)
+5Vsb / 1A (white)
Output Max: 300W

Part Number	Description
80-0459-20	Power Pro Power Supply for WMS Bluebird

INTERNATIONAL POWER SUPPLY FOR WMS 360 AND 550

New

- Open frame international power supply for WMS 360 and 550 machines
- +5V@10A, +12V@5A, -12V@1A
- IL, CSA AND TUV, Built-In EMI Filter

Part Number	Description
80-0341-10	Int'l Power Supply for WMS 360 and 550

OPEN FRAME POWER SUPPLY FOR WMS BLUEBIRD

New

- 300W output max for use in WMS Bluebird machines

Part Number	Description
80-0459-10	300W Power Supply for WMS Bluebird

POWER SUPPLY FOR MIKOHN SIGNS

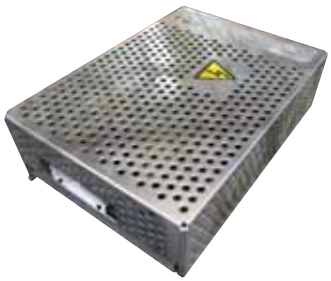
New

- 320W single output with Power Factor Correction (PFC) function
- Universal AC input / Full range
- Built-In active PFC function, PF>0.95
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Forced air cooling by built-in DC fan
- Built-in fan speed control
- Fixed switching frequency at 100KHz
- 3 year warranty

Part Number	Description
80-1301-00	Power Supply for Mikohn Signs

POWER SUPPLY REPAIR FOR IGT AND ARISTOCRAT

New



- For IGT Game King and Aristocrat power Supplies
- Flat rate includes parts and labor
- 6-month warranty
- Please call, fax or e-mail our Las Vegas Service Center for a RMA (Return Material Authorization)

Toll Free Phone: (866) 736-2374
Local Phone: (702) 597-4840
Fax: (702) 597-5360
E-mail: service@suzohapp.com

Part Number	Ref. No.	Description
40009003	WP203F11	IGT Game Power Supply
431675	MK5PFC	Aristocrat Power Supply

REPLACEMENT POWER SUPPLY BOARD FOR BALLY SLOTS

- For Bally Pro Series slots V7000 & V7200 & 5000
- Just replace the board and save $$
- 63.5 watts, 5.5 amps
- UL, CE, CSA Approved

Part Number	Description
80-1178-00	Power Supply Board

104 WATT POWER SUPPLY

New

- +5V 3~15 A, +12V 4 A, +24V 4 A
- 104 watts
- AC input 88-132VAC or 176-264VAC (switchable)
- CE and TUV approved
- High efficiency
- Industry standard
- Easy start up
- Green “power on” LED
- Overload protected
- Built in EMI filter
- Maximum noise minimization by built in high speed diode
- Weight: 1.76 lbs
- 2” H x 4.33” W x 7.6” D
- 20 per case

Part Number	Description
42PP0608	104 Watt Power Supply

NEON SIGN POWER SUPPLY

New

- Replaces Several different sizes of standard transformers
- Supports up to 8 cathodes (4 tubes)
- Max. meters connected 4.4 meters (4 tubes x 1.1m)
- 1 max sec = 18.6 mA
- 1 max prim = 520mA
- Min. cathodes connected = 1 (1 tube)
- Min. meters connected = 0.32
- 1 max sec = 18.6mA
- 1 max prime = 100mA

POWER REQUIREMENTS	
Voltage :	120 VAC, 50/60 Hz
Current :	0.66 A max (depends on load)
Power :	80 W max (depends on load)
INPUT CONNECTIONS	
Two AWG 18 leads, 8 inches long, or power cord, 8 ft long, black or white	
CONTROL (OPTIONAL)	
Red (+) and brown (-) wires can be connected to an electronic controller to modulate neon brightness or to gate the unit on and off	
Maximum "on" voltage :	1.20 V
Minimum "off" voltage :	2.50 V
Control current :	1.6 mA (5 V control voltage)
Absolute max. control voltage :	15 V
OUTPUT CHARACTERISTICS	
Output is isolated from input for maximum flexibility of application. Shorted output supplies the rated current. Open circuit or excessive load will cause the unit to shut down, but special circuit will attempt to automatically restart power up to three times to avoid nuisance trips	
Voltage :	8KV AC max. (actual voltage depends on load and will be equal to or lower than this value.)
Current :	20 mA
OUTPUT CONNECTIONS	GTO-10 leads, 12 inches long
DIMENSIONS	4.00 x 1.40 x 0.90 (max) inches
MOUNTING	
Unit is mounted with two 8-32 x 3/4 inch nylon screws and nuts (provided)	

Part Number	Description
32-1036-00	Neon Sign Power Supply

TRIPP LITE 750U UPS SYSTEM

New

- INTERNET750U standby UPS offers complete protection from blackouts, brownouts and surges on AC and tel/DSL dataline connections
- 12 widely spaced outlets accommodate large transformer plugs without blocking outlets
- 6 battery-supported outlets protect computers and vital system peripherals. 6 surge suppression-only outlets protect system accessories that do not require battery support
- Provides battery-derived AC output during blackouts and brownouts
- 750VA/450W power handling ability supports a variety of PCs, workstations and other sensitive electronics
- Supports entry-level PC systems up to 35 min. during blackouts
- Single-line tel/DSL surge suppression with line splitter protects two directly connected modems, fax machines or cordless phones sharing a single phone line connection
- USB port, FREE PowerAlert Software and cabling provide monitoring of site power conditions
- HID-compliant USB interface enables integration with built-in power management and auto-shutdown features of Windows and Mac OS X.
- Supports Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application/OS or hard power off/on reboot of connected equipment; ideal for unattended kiosk applications
- Hot-swap battery replacement supported via battery access door
- Space-saving ultra-compact housing
- Keyhole mounting flanges enable secure wall mount installation
- $100,000 Ultimate Lifetime Insurance protects connected equipment from surge damage (USA & Canada only)
- 2-year manufacturer's product warranty

Part Number	Description
80-0409-10	Tripp Lite 750U UPS System

TRIPP LITE AVR750U UPS SYSTEM

New

- AVR750U line-interactive UPS offers protection from blackouts, brownouts and surges on both AC and Tel/DSL line connections
- Built-in Automatic Voltage Regulation (AVR) boosts brownouts as low as 83V and reduces overvoltages up to 147V back to usable 120V nominal levels
- 12 outlets, 4 of which are widely spaced to accommodate large transformer blocks without obscuring adjacent outlets
- 6 battery-supported outlets protect computers, monitors and vital system peripherals, plus 6 additional surge suppression-only outlets for printers and other system accessories not requiring battery support
- Provides battery-derived AC output during blackouts, voltage boost during brownouts and voltage reduction during overvoltages
- 750VA / 450 watt power-handling ability supports a variety of PCs, workstations and other sensitive electronics
- Supports entry-level PC systems up to 35 minutes during blackout conditions
- Built-in single-line Tel/DSL line surge suppression protects modems, fax machines or cordless phones
- USB port, included USB cable and PowerAlert software offer safe, unattended shutdown without data loss during extended outages
- HID-compliant USB port enables integration with built-in power management and auto shutdown features of Windows and Mac OSX
- Supports Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application / OS or hard power off/on reboot of connected equipment - ideal for unattended kiosk applications
- Hot-swappable user battery replacement supported via battery access door
- Space-saving, ultra-compact housing fits almost anywhere
- Keyhole mounting flanges enable secure wall mount installation
- 2-year manufacturer's product warranty

Part Number	Description
80-0497-00	Tripp Lite AVR750U UPS System

TRIPP LITE SMART2200VS TOWER UPS SYSTEM

New

- 2200VA / 1600 watt output capacity accommodates a variety of server, networking and telecom devices
- High power density 2.2kVA UPS system occupies only 106 square inches of floorspace with a height of only 14.25 inches
- Compatible with North American 120V / 60 Hz power as found in the USA, Canada and Mexico
- Offers 7 minutes runtime with a full load of 2200VA and 19 minutes with a half load of 1100VA
- Line interactive voltage regulation corrects severe brownouts and overvoltages from 79 to 147v back to normal 120v levels without using battery power
- 9 total outlets (7 NEMA5-15R; 2 NEMA5-15/20R)
- Includes NEMA 5-20 straight blade 20 amp input plug connection; package includes optional user installable NEMA 5-15 input plug to enable connection to a 15A circuit
- Notification of system status via 5 LEDs and multi-function audible alarms
- Included PowerAlert Software provides e-mail notification of power problems and the simultaneous automatic unattended shutdown of multiple servers
- 4 built-in communications ports (2-DB9, 2-USB) for remote monitoring and unattended shutdown
- Slot for SNMP/web card (part#: SNMPWEBCARD) and environmental sensor (part#: ENVIROSENSE) for remote communications in large IP environments
- Supports Tripp Lite's WatchDog software application to restore unresponsive programs by automatically restarting them and rebooting completely locked computers by automatically switching UPS power off and back on again
- Communication ports support on battery, low battery, power restored, AC line voltage, DC battery voltage, load percentage, battery charge current, battery capacity, internal UPS temperature and line frequency status messaging. Interface supports timed inverter shutoff after unattended shutdown, activate self-test and 10 second reboot of connected equipment
- 3 pairs of customized load management receptacles can be individually powered off and back on again via software interface to reboot remote equipment or shed less critical loads to extend battery runtime for the most critical equipment
- Built-in Emergency Power Off (EPO) interface supports emergency shutoff in large facilities
- Hot-swappable / user replaceable batteries allow on-site battery replacement through the front panel without powering off connected equipment or removing the UPS from the rack
- UPS battery set ships fully assembled and ready for use, no time consuming, connection of individual internal batteries by user is necessary
- UL (USA), cUL (Canada), NOM (Mexico), Class A (Emissions)
- $250,000 Ultimate Lifetime Insurance. No warranty cards required for coverage!
- 2 year manufacturers product warranty

Part Number	Description
80-0408-05	Tripp Lite Smart2200VS Tower UPS System

TRIPP LITE SMART1050VS TOWER UPS SYSTEM

New

- 1050VA / 705 watt power handling capability supports a variety of networking, telecom and various other application types
- Built-in voltage regulation and battery support prevents equipment damage, data loss and downtime
- Large internal batteries offer 23 minutes half load runtime and 8 minutes at full load during power failures
- Automatic Voltage Regulation (AVR) circuits with two boost and one voltage reduction level maintains usable 120V nominal output over an input voltage range of 75-147V
- Includes a total of 6 NEMA5-15R outlets
- Includes 1 USB communications port for remote monitoring of UPS status and site power conditions
- Communications port enables safe unattended shutdown without data loss during extended power failures
- Communications port supports messaging of UPS and line power status, including on-battery, low-battery, power-restored, AC line voltage, DC battery voltage and battery capacity
- Communications port supports timed inverter shutoff after unattended shutdown, activate self-test and 10 second reboot of connected equipment
- PowerAlert UPS monitoring and unattended shutdown software with complete cabling included
- Supports Tripp Lite's WatchDog software application to restore unresponsive programs by automatically restarting them and rebooting completely locked computers by automatically switching UPS power off and back on again
- Notification of system status via 5 LEDs and multi-function audible alarms
- Wall mountable with UPSWM wallmount bracket
- Attractive small footprint beige tower housing uses less than 53 square inches
- Hot-swappable / user replaceable batteries allow on-site battery replacement
- Cold start capability enables UPS turn-on in battery mode during blackout conditions
- UL (USA), cUL (Canada), NOM (Mexico), Class B (Emmisions)
- $250,000 Ultimate Lifetime Insurance
- 2 year manufacturers product warranty

Part Number	Description
80-0408-03	Tripp Lite Smart1050VS Tower

TRIPP LITE SMART1500VS TOWER UPS SYSTEM

New

- 1500VA / 980 watt power handling capability supports a variety of networking, telecom and various other application types
- Built-in voltage regulation and battery support, plus complete AC suppression prevents equipment damage, data loss and downtime
- Large internal batteries offer 20 minutes half load runtime and 7 minutes at full load during power failures
- Automatic Voltage Regulation (AVR) circuits with two boost and one voltage reduction level maintains usable 120V nominal output over an input voltage range of 75-147V
- Includes a total of 6 NEMA5-15R outlets, 1 of which can be individually powered on and off via software interface to selectively reboot remote equipment or shed less significant loads to extend battery runtime for more critical equipment
- Includes 1 USB and 1 DB9 monitoring port for remote monitoring of UPS status and site power conditions
- Communications ports enable safe unattended shutdown without data loss during extended power failures
- Communications ports support messaging of UPS and line power status, including on-battery, low-battery, power-restored, AC line voltage, DC battery voltage and battery capacity
- Communications ports support timed inverter shutoff after unattended shutdown, activate self-test and 10 second reboot of connected equipment
- PowerAlert UPS monitoring and unattended shutdown software with complete cabling included
- Supports Tripp Lite's WatchDog software application to restore unresponsive programs by automatically restarting them and rebooting completely locked computers by automatically switching UPS power off and back on again
- Notification of system status via 5 LEDs and multi-function audible alarms
- Wall mountable with UPSWM wall mount bracket
- Attractive small footprint beige tower housing uses less than 66 square inches
- Hot-swappable / user replaceable batteries allow on-site battery replacement
- Cold start capability enables UPS turn-on in battery mode during blackout conditions
- UL (USA), cUL (Canada), NOM (Mexico), Class A (Emissions)
- $250,000 Ultimate Lifetime Insurance (USA and Canada only)
- 2 year manufacturers product warranty with $250,000 connected equipment insurance (USA & Canada Only)

Part Number	Description
80-0408-04	Tripp Lite Smart1500VS Tower UPS System

TRIPP LITE INTERNET OFFICE 550 UPS SYSTEM

- 8 Outlets (4 UPS/surge, 4 surge only)
- Built-in RJ11 jacks provide complete modem/phone protection
- DB9 communications port and free software facilitate unattended shutdown
- $25,000 connected equipment insurance (USA & Canada only)
- 525VA / 300 watts supports entry-level PC systems for several minutes
- Attractive stealth black UPS color scheme
- Includes 6 ft. AC power cord, on/off power switch
- Compact cabinet design fits easily on or under any desk
- Built-in audible alarm and front panel LEDs
- 2-year manufacturer's product warranty
- 8 lbs.

Part Number	Description
80-0408-01	Tripp Lite Internet Office 550 UPS System

SUZO-HAPP ILLUMINATED PUSHBUTTON FEATURES

Standard/Combo Buttons

See Pages 86-88

Low Profile Buttons

See Page 89

Poker VLT Buttons

See Pages 90-91

Replacement Button Sets for IGT Slot Machines

See Pages 94-95

All Suzo-Happ Illuminated Pushbuttons:

- Made with highest quality materials
- Exclusive “Posi-Lock” design assures secure fit
- Fits wood or metal control panels
- Polycarbonate lens cap for optical clarity
- Heat resistant plastic
- Microswitch reliability tested to 10,000,000 cycles

Available Options:

- Long life #658 14 V DC, lamp optional 15,000 hours
- #555 6 V DC, 28 V DC lamps and LEDs optional
- Chrome or brass plating available on bezel at nominal charge
- Can be used as lighted indicators with optional indicator washer (plunger will not depress)
- Custom printing on legends available at nominal charge
- For illuminated pushbutton accessories, see pages 97-98
  - – Button Plugs
  - – Illuminated pushbutton covers
  - – Illuminated pushbutton wrench
  - – LEDs for illuminated pushbuttons

Charges for Custom Legend Lettering Designs and Artwork

- Minimum of 100 pieces per legend

Part Number	Description
99-9999-35	$35.00 Artwork Fee for 1st Legend - Single Color
99-9999-03	$30.00 Artwork Fee for 2nd Legend - Single Color
99-9999-65	$65.00 Artwork Fee for Each Multi-color Legend

‘POSI-LOCK’ DESIGN FOR ALL SUZO-HAPP BUTTONS

Lamp Assembly Installation

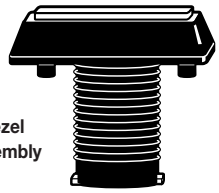
Suzo-Happ has developed the exclusive "Posi-Lok" design to assure a positive fit between the button bezel and the lampholder assembly.

Simply insert lampholder assembly into button bezel (step 1),

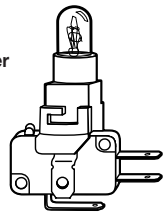
make sure that the notch on the lampholder assembly is aligned with the tab on the bezel assembly (step 2),

then twist or turn the lampholder assembly until it locks in place (step 3).

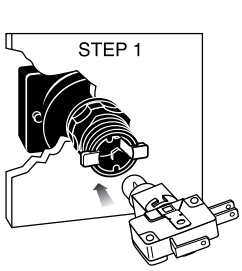
EXCLUSIVE

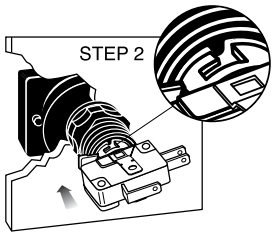


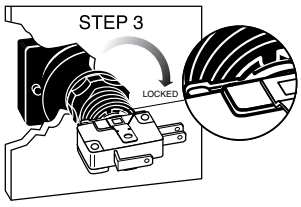
Bezel Assembly



Lampholder Assembly



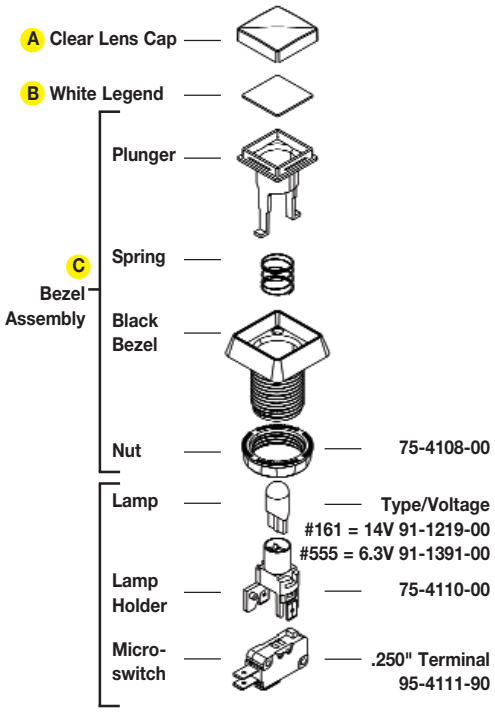




ILLUMINATED PUSHBUTTONS

Examples of Custom Artwork

IDENTIFICATION KEY

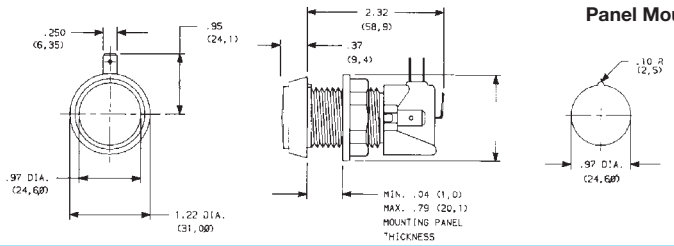


	A	B	C
Button Style	**Clear Lens Cap**	**White Legend**	**Bezel Assy w/o Nut**
Small Round	**75-4021-38**	**75-4022-31**	**75-0020-00**
Small Square	**75-4041-38**	**75-4042-31**	**75-0040-00**
Rectangle	**75-4051-38**	**75-4052-31**	**75-0050-00**
Elliptical	**75-6010-18**	**75-6020-11**	**75-6100-01**
Medium Round	**75-4061-68**	**75-4062-61**	**75-0060-00**
Large Round	**75-4011-38**	**75-4012-31**	**75-0010-00**
Large Square	**75-4031-38**	**75-4032-31**	**75-0030-00**
Jumbo Round	**95-4007-185**	**95-4006-11SL**	**95-4003-SL**

ILLUMINATED PUSHBUTTONS

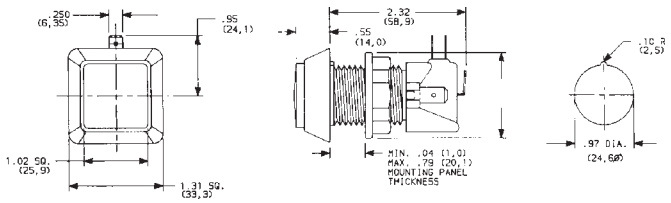
SMALL ROUND

Panel Mounting



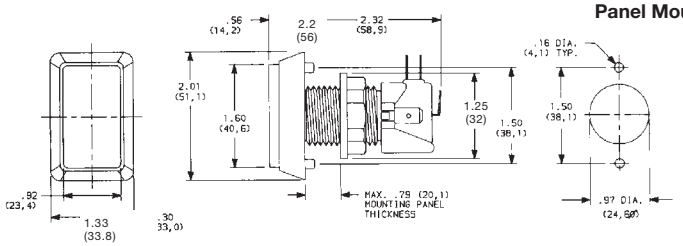
SMALL SQUARE

Panel Mounting



RECTANGLE

Panel Mounting



* When ordering a white legend you will receive a clear cap

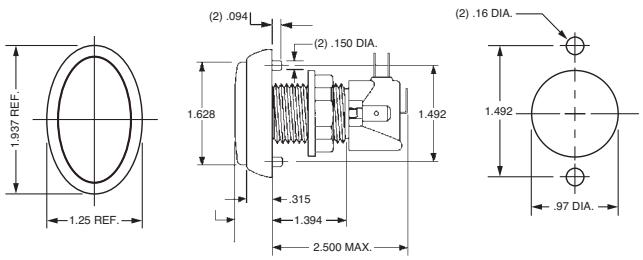
Legend & Lens Cap : X = Color	
0 = Red	3 = Green
1 = White*	5 = Yellow
2 = Blue	7 = Amber (Orange)

Part Number	Description
D54-0004-2X	Small Round, 14V #161 lamp, .250 micro.
D54-0004-4X	Small Square, 14V #161 lamp, .250 micro.
D54-0004-5X	Rectangular, 14V #161 lamp, .250 micro.

ILLUMINATED PUSHBUTTONS

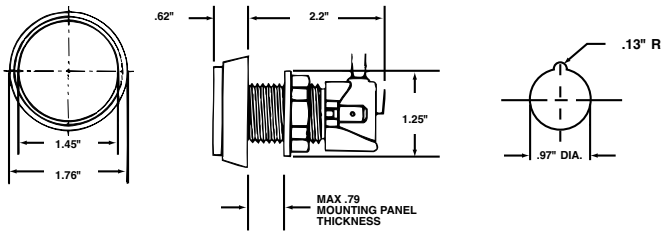
ELLIPTICAL

Panel Mounting



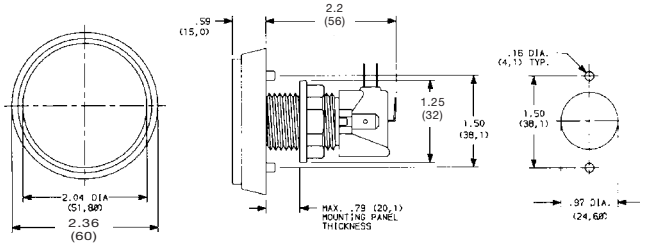
MEDIUM ROUND

Panel Mounting



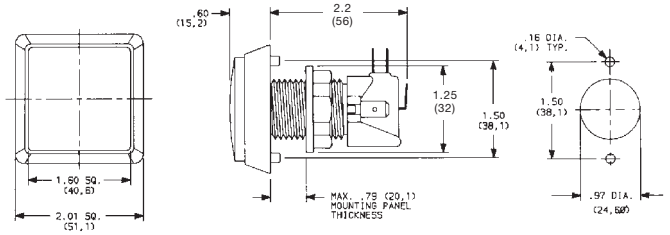
LARGE ROUND

Panel Mounting



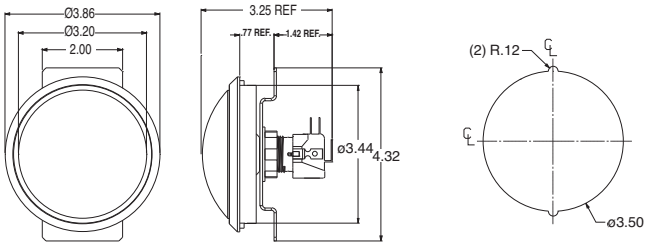
LARGE SQUARE

Panel Mounting



JUMBO ROUND

Panel Mounting



Part Number	Description
75-6004-8x	Elliptical, 14V #161 lamp, .250 micro.
D54-0004-6X	Medium Round, 14V #161 lamp, .250 micro.
D54-0004-1X	Large Round, 14V #161 lamp, .250 micro.
D54-0004-3X	Large Square, 14V #161 lamp, .250 micro.
95-4002-1XZL	Jumbo Round, 14V #161 Lamp, .250 micro. (Legends are white only)

*** Jumbo Round Pushbuttons come standard with white legend and cap color denotes overall button color.**

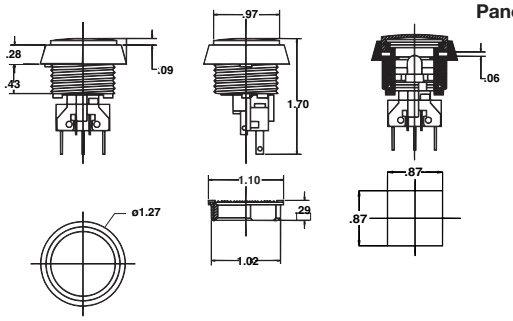
Legend & Lens Cap : X = Color	
0 = Red	3 = Green
1 = White*	5 = Yellow
2 = Blue	7 = Amber (Orange)

COMBO ILLUMINATED PUSHBUTTONS

- Standard illuminated pushbutton fitted with a subminiature switch with gold contacts and .110 terminals
- Subminiature microswitch provides additional clearance room under control panel
- Designed to resist spills and sticking
- High reliability and long life, tested to 10,000,000 cycles
- Fitted standard with #73, 14V wedge based lamp
- Fits wood or metal control panels
- Custom printing on legends available at nominal charge
  See page 85
- See page 98 for LED
- Posi-lock lampholder

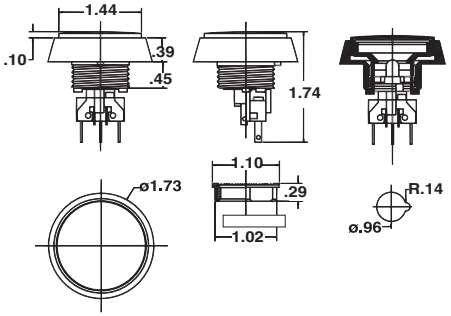
SMALL ROUND

Panel Mounting



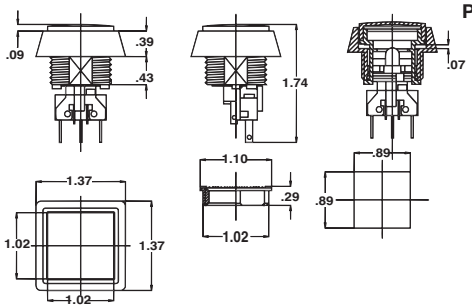
MEDIUM ROUND

Panel Mounting



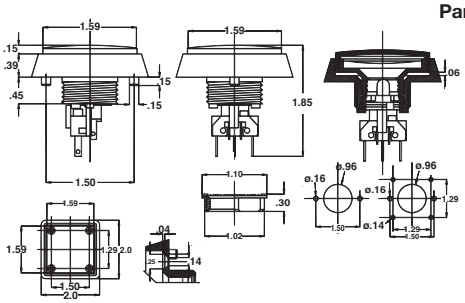
SMALL SQUARE

Panel Mounting



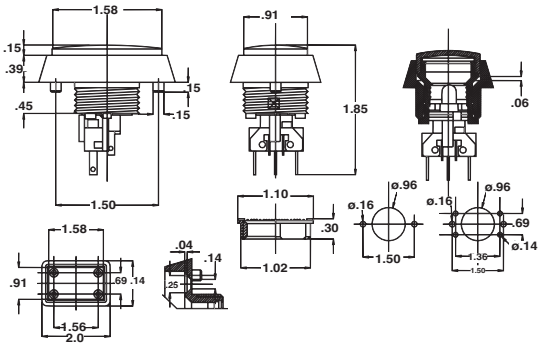
LARGE SQUARE

Panel Mounting



RECTANGLE

Panel Mounting



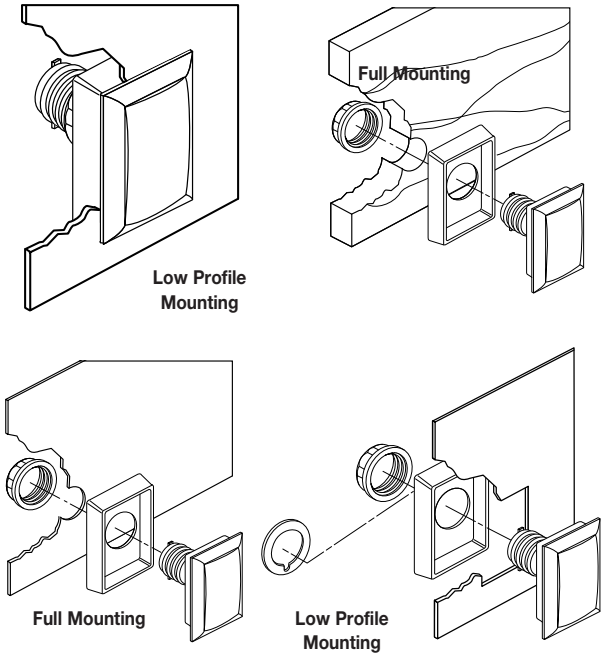
Legend & Lens Cap : X = Color	
0 = Red	3 = Green
1 = White	5 = Yellow
2 = Blue	7 = Amber (Orange)

Part Number	Description
75V-0004-2X	Small Round Pushbutton
75V-0004-6X	Medium Round Pushbutton
75V-0004-4X	Small Square Pushbutton
75V-0004-3X	Large Square Pushbutton
75V-0004-5X	Rectangle Pushbutton

LOW PROFILE ILLUMINATED PUSHBUTTONS

- Unique design provides “flat” profile to enhance playability
- Fits wood or metal control panels
- Microswitch reliability tested to 10,000,000 cycles
- Fitted standard with #161, 14V bulb
- Posi-Lock design to assure a positive fit between the button bezel and lampholder (all sizes except medium round and triangle)
- Can be used as lighted indicators with optional indicator washer (plunger will not depress)
- Custom printing on legends available at nominal charge See page 85
- See page 98 for LED

Low Profile Mounting Options



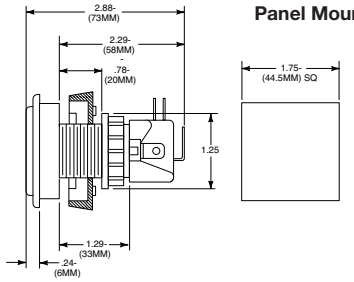
Washer required for small square, small round and medium round

Legend & Lens Cap : X = Color	
0 = Red	3 = Green
1 = White	5 = Yellow
2 = Blue	7 = Amber (Orange)

Part Number	Description
77-0004-3X	Large Square Low Profile 14V #161 lamp, .250 micro.
77-0004-4X	Small Square Low Profile 14V #161 lamp, .250 micro.
77-0004-5X	Rectangular Low Profile 14V #161 lamp, .250 micro.
77-0004-2X	Small Round Low Profile 14V #161 lamp, .250 micro.
57-0004-6X	Medium Round Low Profile 14V #161 lamp, .250 micro.
71-0004-TX	Triangle Low Profile 14V #161 Lamp, .250 micro.

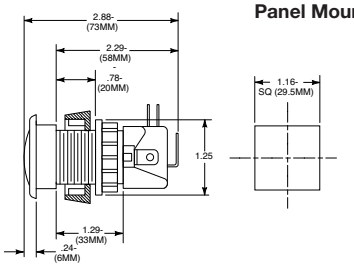
LARGE SQUARE

Panel Mounting



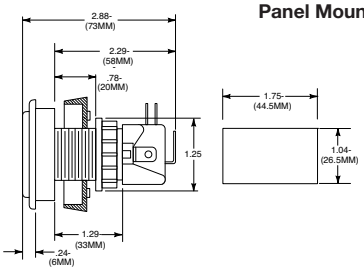
SMALL SQUARE

Panel Mounting



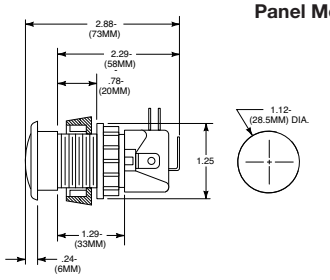
RECTANGLE

Panel Mounting



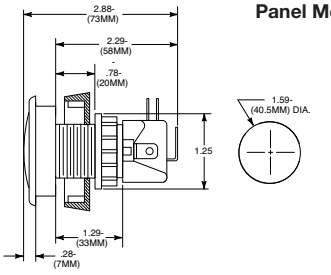
SMALL ROUND

Panel Mounting



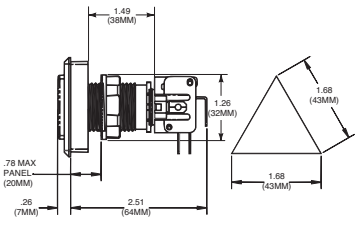
MEDIUM ROUND

Panel Mounting



TRIANGLE

Panel Mounting



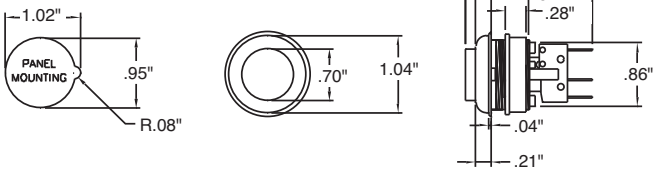
POKER/VLT ILLUMINATED PUSHBUTTONS

- Designed to retrofit all existing VLT (Video Lottery Terminals) and draw poker applications using .87"/22mm square mounting hole
- Designed to resist spills and sticking
- Designed for high reliability and long life, tested to 10 million+ cycles
- Small size, low profile, provides maximum player comfort
- Unique design, with separable lamp/switch holder, allows easy lamp changing while holding switch very securely
- Full .020"/.5mm Thickness on lamp terminals holds lamp connectors securely
- Contacts for lamp base are two-legged to assure reliable contact with lamp
- .062" grounding terminal is optional
- Gold contact subminiature .110 terminals microswitch fitted as standard
- 6.3V, T-13/4 wedge base lamp is standard
- 14V, #73 or 28V, #85 lamps optional
- White legend and clear lens cap fitted as standard
- Additional colors of legend and lens cap are available
- Custom legend lettering designs and artwork available at nominal charge. See page 85
- Translucent color bezel available (57-8000-XX) Red, Green, Yellow, Clear or Blue
- Posi-lock lampholder

Legend & Lens Cap : X = Color	
0 = Red	3 = Green
1 = White	5 = Yellow
2 = Blue	7 = Amber (Orange)

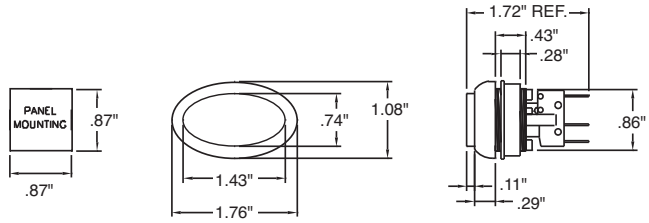
SMALL ROUND

Panel Mounting



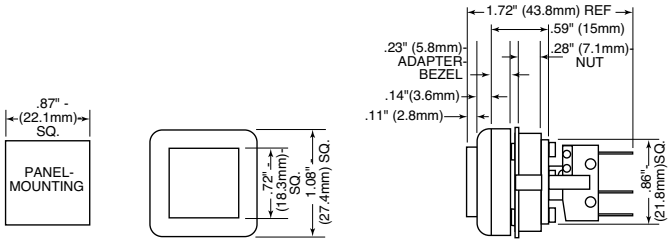
ELLIPTICAL

Panel Mounting



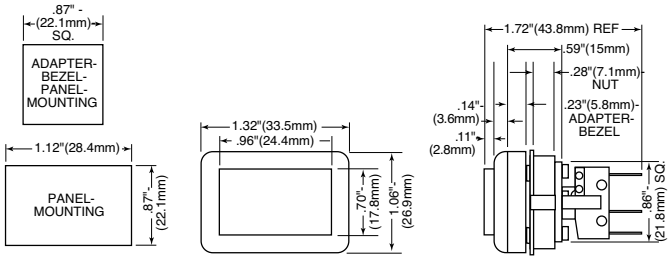
SMALL SQUARE

Panel Mounting



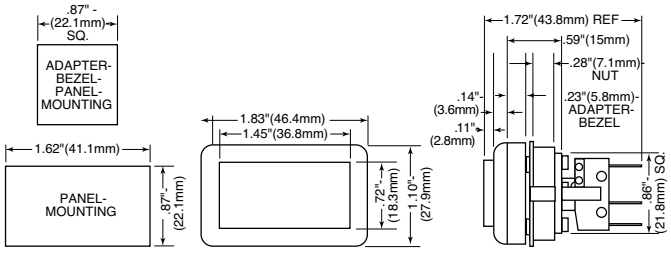
MEDIUM RECTANGLE

Panel Mounting



RECTANGLE

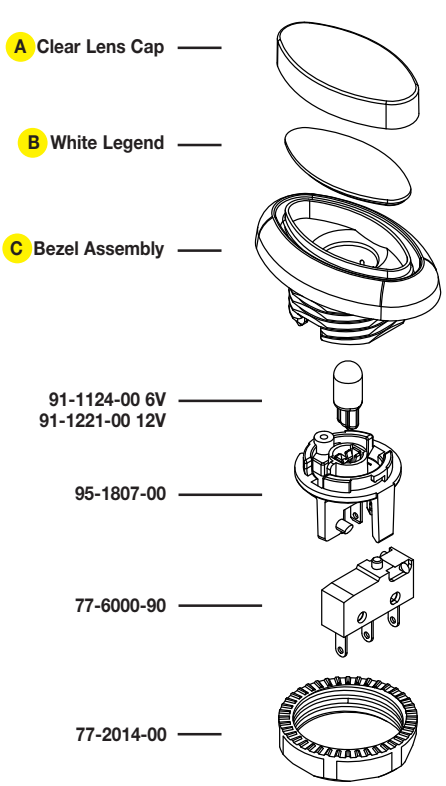
Panel Mounting



Part Number	Description
77-2000-3X	Small Round VLT Pushbutton
77-2000-8X	Elliptical VLT Pushbutton
77-2000-4X	Small Square VLT Pushbutton
77-2000-6X	Medium Rectangle VLT Pushbutton
77-2000-5X	Rectangular VLT Pushbutton

See page 98 for LEDs for Pushbuttons

POKER/VLT PUSHBUTTONS REPLACEMENT PARTS

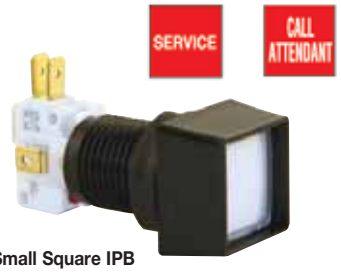


Button Style	A Clear Lens Cap	B White Legend	C Bezel Assy w/o Nut
Small Round	77-3310-08	77-3300-01	77-4700-00
Elliptical	77-3810-08	77-3800-01	77-4100-00
Small Square	77-3410-08	77-3400-01	77-4400-00
Medium Rectangle	77-3610-08	77-3600-01	77-4600-00
Rectangle	77-3510-08	77-3500-01	77-4500-00

Note: Lampholder Assembly includes #86 lamp and black Cherry switch 95-1807-00

RAISED BEZEL ILLUMINATED PUSHBUTTONS

- Cut down on unnecessary service calls
- Avoid the accidental triggering of change or other slot service lights
- Innovative raised bezel design with a small square recessed button
- Choose blank white legends, “Service” or “Call Attendant” red legends with white print
- Clear lens caps
- 14V lamps, Standard IPB has .250 switch terminal; VLT has .110 switch terminal
- Standard mounting holes
- Custom versions also available



Small Square IPB
57-1809-00R

Small Square VLT
57-1810-00R

Part Number	Description
57-1809-20R	Raised Bezel IPB, Red “Service” Legend
57-1809-10R	Raised Bezel IPB, Red “Call Attendant” Legend
57-1809-00R	Raised Bezel Small Square IPB, White
57-1810-20R	Raised Bezel VLT, Red “Service” Legend
57-1810-10R	Raised Bezel VLT, Red “Call Attendant” Legend
57-1810-00R	Raised Bezel Small Square VLT, White
95-2848-00	Button Guard for Small Square Standard IPB
95-2847-00	Button Guard for Small Square VLT
95-2815-00	Raised Profile Adapter for Small Circle Illuminated Pushbutton

BUTTON GUARDS FOR ILLUMINATED PUSHBUTTONS

New

- Create a raised profile pushbutton by simply adding on this durable ABS plastic collar
- Cut down on unnecessary service calls by avoiding the accidental triggering of change or other slot service lights
- Easy to install by simply placing them over existing Small Square VLT’s or Standard IPBs
- Two different size versions available

95-2848-00
shown on a
pushbutton assembly

95-2847-00

95-2848-00

95-2847-00
shown on a
pushbutton assembly

Part Number	Description
95-2848-00	Button Guard for Small Square Standard IPB
95-2847-00	Button Guard for Small Square VLT

BUTTON GUARDS FOR ILLUMINATED PUSHBUTTONS

New

75-0000-2180431
(Sold Separately)
Shown with
Raised Profile
Adapter Installed

95-2815-00

- Unique adapter easily installs over both small circle standard illuminated pushbutton and small circle low-profile illuminated pushbutton
- When installed it prevents anyone from leaning against button and accidently depressing button
- Made from durable black ABS plastic
- Size: 1.7” Wide x .75” High

Part Number	Description
95-2815-00	Raised Profile Adapter for Small Circle Illuminated Pushbutton

STARPOINT CLASSIC TRIANGULAR PUSHBUTTON

New

- Available in a variety of colors
- LED or incandescent bulbs available
- Custom printing on legends available at nominal charge
- Minimum order quantity required
- Available for custom OEM applications
- Contact your sales representative for more details.

STARPOINT

Part Number	Description
TPB	Starpoint Classic Triangular Pushbutton

STARPOINT LUMINESCENT PUSHBUTTONS

- A wide rage of shapes and sizes to suit all applications
- Available in a variety of colors
- LED or incandescent bulbs available
- A special double molded bezel combined with a translucent colored washer provides a luminescent effect
- Custom printing on legends available at nominal charge
- For custom OEM applications
- Minimum order quantity required
- Contact your sales representative for more details.

STARPOINT

SSC44

SSC42

RSC44

OSC42

Part Number	Description
SSC44	Square Luminescent Pushbutton
SSC42	Medium Square Luminescent Pushbutton
RSC44	Rectangular Luminescent Pushbutton
OSC42	Oval Luminescent Pushbutton

Gamesman Pushbuttons

GAMESMAN ILLUMINATED PUSHBUTTONS

GPB583 GPB510 GPB540

GPB810-B GPB840-R

Part Number	Shape	Description
GPB350	Square	6.3V LED for Aristocrat
GPB510	Small Square	12V LED for Konami
GPB520	Small Rectangle	12V LED for Konami
GPB540	Large Rectangle	12V LED for Konami
GPB570	Large Square	12V LED for Konami
GPB580	Round Corner Rectangle	12V LED for Konami
GPB583	Six Sided - Hexagon	12V LED for Konami
GPB810-B	Small Square	12V LED for Konami - Blue Halo
GPB840-B	Rectangle	12V LED for Konami - Blue Halo
GPB810-R	Small Square	12V LED for Konami - Red Halo
GPB840-R	Rectangle	12V LED for Konami - Red Halo

GAMESMAN GPB430-D LED PUSHBUTTON

- For Aristocrat games
- Disco 12v LED
- Illuminated pushbutton with black housing and revolving tri-colored LED lights
- “Disco” version of the GPB430

Part Number	Description
GPB430-D	Gamesman GPB430-D LED Pushbutton

GAMESMAN GPB430 LED PUSHBUTTON

- For Aristocrat games
- Includes button body, legend plate, lens cap, connector and LED
- Tri-colored 12v LED

Part Number	Description
GPB430	Gamesman GPB430 LED Pushbutton

RAISED BEZEL FOR GAMESMAN GPB 350 BUTTON

- Allows you to convert your Gamesman GPB 350 series button into a new, raised bezel illuminated pushbutton
- Simply disassemble and reuse your existing Gamesman pushbutton and reassemble
- Bezel only
- Color: black
- Sturdy plastic construction

Part Number	Description
96-0897-00	Raised Bezel for Gamesman

SUZO-HAPP Replacement Illuminated Button Sets for IGT Slot Machines

- Made with the highest quality materials
- Designed to resist spills and sticking
- Designed for high reliability and long life, tested to 10 million+ cycles
- Unique design with separable lamp/switch holder allows easy lamp changing while holding switch very securely

REPLACEMENT BUTTON SET FOR IGT PE PLUS SLANT TOP SLOT MACHINES

New

- All buttons have clear caps, white legends and black print, except the "Change" button, which has a red legend and white print
- Fitted with #86 6.3 volt lamp / 6v LED / 12v LED
- Set includes: 5 Rectangular "Hold/Cancel" buttons
  1 Rectangular "Cash Out" button
  1 Rectangular "Bet One Credit" button
  1 Rectangular "Play 5 Credits" button
  1 Rectangular "Deal/Draw" button
  1 Small Square "Change" button

Complete Individual Replacement Buttons:	
Part Number	**Description**
77-2000-51800006	"Hold/Cancel"
77-2000-518605	"Cash Out"
77-2000-518HP610	"Bet One Credit"
77-2000-518220	'Play 5 Credits"
77-2000-518B56	"Deal/Draw"
77-2SP2-408333	"Change"

Part Number	Description
77-KIT-100	Complete Button Set for IGT PE Plus Slant Top Slot Machine with 6v Lamp
77-KIT-106LD	Complete Button Set for IGT PE Plus Slant Top Slot Machine with 6v LED
77-KIT-112LD	Complete Button Set for IGT PE Plus Slant Top Slot Machine with 12v LED

REPLACEMENT BUTTON SET FOR IGT PE PLUS UPRIGHT SLOT MACHINES

New

- Small square buttons with clear caps
- All buttons have white legends and black print, except the "Change" button, which has a red legend and white print
- Fitted with #86 6.3 volt lamp / 6v LED / 12v LED
- Set includes: 5 "Hold/Cancel" buttons
  1 "Cash Out" button
  1 "Change" button
  1 "Max Bet" button
  1 "Deal/Draw" button
  1 "Bet One" button

Complete Individual Replacement Buttons:	
Part Number	**Description**
77-2SP0-418311	"Hold/Cancel"
77-2SP2-418332	"Cash Out"
77-2SP2-408333	"Change"
77-2SP0-418330	"Max Bet"
77-2SP0-418248	"Deal/Draw"
77-2SP0-418331	"Bet One"

Part Number	Description
77-KIT-200	Complete Button Set for IGT PE Plus Upright Slot Machine with 6v Lamp
77-KIT-200L	Complete Button Set for IGT PE Plus Upright Slot Machine with 6v LED
77-KIT-212LD	Complete Button Set for IGT PE Plus Upright Slot Machine with 12v LED

REPLACEMENT BUTTON SET FOR IGT S PLUS UPRIGHT SLOT MACHINES

New

- Large and small square buttons with clear caps, white legends and black print
- Fitted with #555 6.3 volt lamp / 6v LED / 12v LED
- Fits IGT S Plus Machines 1995 to present
- Set includes: 1 Large Square "Spin Reels" button
  1 Large Square"Play Max Credits" button
  1 Small Square "Bet One Credit" button
  1 Small Square "Change" button
  1 Small Square "Cash/Credit" button

Complete Individual Replacement Buttons:	
Part Number	**Description**
75-0006-318HP73	"Spin Reels"
75-0006-318HP82	"Play Max Credits"
75-0006-418HP593	"Bet One Credit"
75-0006-418HP609	"Change"
75-0006-4181667	"Cash/Credit"

Part Number	Description
75-KIT-300	Complete Button Set for IGT S Plus Upright Slot Machine with 6v Lamp
75-KIT-306LD	Complete Button Set for IGT S Plus Upright Slot Machine with 6v LED
75-KIT-312LD	Complete Button Set for IGT S Plus Upright Slot Machine with 12v LED

IGT Replacement Button Sets

GAME KING BAR TOP REPLACEMENT SETS

New

- Rectangular and small square buttons with clear caps
- All buttons have white legends and black print except the “Change” button which has a red legend and white print
- Fitted with #73, 14v lamp / 6v LED / 12v LED
- Set includes:
  - 1 “Change” button
  - 1 “Cash Out” button
  - 1 “Bet One Credit” button
  - 1 “Max Bet” button
  - 1 “Deal/Draw” button
  - 5 “Hold/Cancel” buttons

Complete Individual Replacement Buttons:	
Part Number	**Description**
77-2012-408333	“Change”
77-2012-518110	“Cash Out”
77-2012-518191	“Bet One Credit”
77-2012-518219	“Max Bet”
77-2012-518107	“Deal/Draw”
77-2012-418311	“Hold/Cancel”

Part Number	Description
77-KIT-401	Complete Button Set for IGT Game King Bar Top Machine with 14v Lamp
77-KIT-406LD	Complete Button Set for IGT Game King Bar Top Machine with 6v LED
77-KIT-402	Complete Button Set for IGT Game King Bar Top Machine with 12v LED

GAME KING UPRIGHT REPLACEMENT SETS

New

- Small square buttons with clear caps
- All buttons have white legends and black print except the “Change” button which has a red legend and white print
- Fitted with #73, 14v lamp / 6v LED / 12v LED
- Set includes:
  - 1 “Change” button
  - 1 “Cash Out” button
  - 1 “Bet One” button
  - 1 “Max Bet” button
  - 1 “Deal/Draw” button
  - 5 “Hold/Cancel” button

Complete Individual Replacement Buttons:	
Part Number	**Description**
77-20SP-408333	“Change”
77-2SP2-418332	“Cash Out”
77-2SP2-418331	“Bet One”
77-2SP2-418330	“Max Bet”
77-2SP2-418248	“Deal/Draw”
77-2SP2-418311	“Hold/Cancel”

Part Number	Description
77-KIT-700	Complete Button Set for IGT Game King Upright Machine with 14v Lamp
77-KIT-706LD	Complete Button Set for IGT Game King Upright Machine with 6v LED
77-KIT-700L	Complete Button Set for IGT Game King Upright Machine with 12v LED

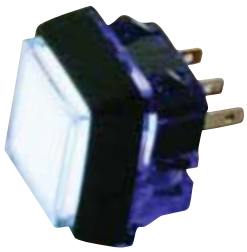
SNAP-TAB ILLUMINATED PUSHBUTTON WITH HALO

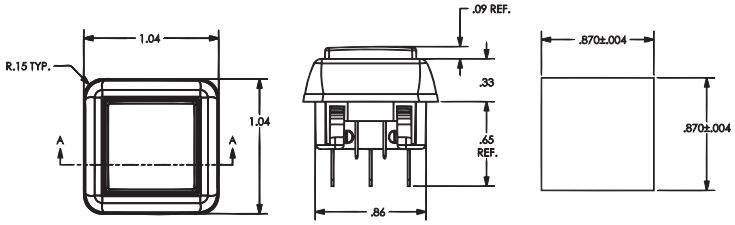
- Blue halo design in your choice of three sizes (Other colors available for OEM applications)
- Features 12V surface mounted white LEDs
- Easy installation, quickly snaps to panel
- Replacement buttons for Bally Alpha M9000 Video, S9000 Video and CineVision machines
- Removal tool (sold separately) easily removes old and newer style snap-tab buttons

Part Number	Description
57-1818-02	Snap-Tab Pushbutton, Small Square
57-1819-02	Snap-Tab Pushbutton, Rectangle
57-1820-02	Snap-Tab Pushbutton, Round

SMALL SQUARE

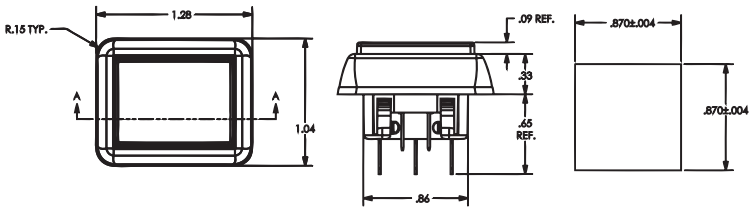
Panel Mounting





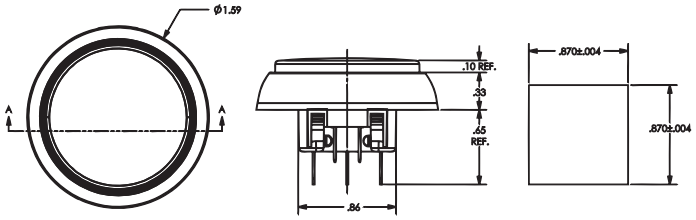
RECTANGLE

Panel Mounting



ROUND

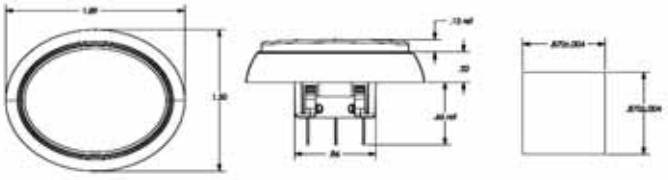
Panel Mounting



SNAP-TAB ILLUMINATED PUSHBUTTON WITHOUT HALO

New

- Features 12v surface mounted white LEDs
- Easy installation, quickly snaps to panel
- Removal tool (sold separately) easily removes old and newer style snap-tab buttons



Part Number	Description
57-1940-02	Snap-Tab Illuminated Pushbutton, Oval

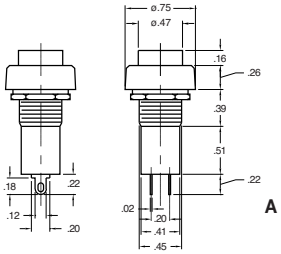
SNAP-TAB ILLUMINATED PUSHBUTTON REMOVAL TOOL

Part Number	Description
96-0840-00	Snap-Tab Pushbutton Removal Tool

MINIATURE MOMENTARY CONTACT PUSHBUTTONS

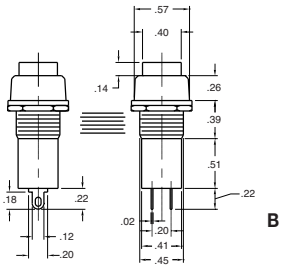
- Small size to allow use in numerous applications
- Momentary contact

A



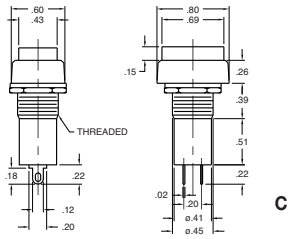
A

B



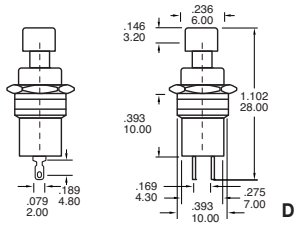
B

C



C

D



D

Part Number	Type	Description
49-0577-00	A	Miniature Round Pushbutton, Black Bezel, Red Center
49-0577-01	A	Miniature Round Pushbutton, Black and White Bezel
49-0577-05	A	Miniature Round Pushbutton, Black Bezel, Yellow Center
49-0578-00	B	Miniature Square Pushbutton, Black Bezel, Red Center
49-0578-11	B	Miniature Square Pushbutton, Black Bezel, White Center
49-3037-00	C	Miniature Rectangle Pushbutton, Black Bezel, Red Center
95-0011-00	D	Mini-Round Pushbutton, Red

ILLUMINATED PUSHBUTTON COVERS

- Protects against spills and scratches
- Duraflex Polyurethane Film

Part Number	Description
54-1001-00	Pushbutton Covers (Small Round)
54-1004-00	Pushbutton Covers (Small Square)
54-1005-00	Pushbutton Covers (Rectangle)
54-1003-00	Pushbutton Covers (Large Round)
54-1000-00	Pushbutton Covers (Large Square)
54-1002-00	Pushbutton Covers (Medium Round)

VLT BUTTON COVERS

- Protects against spills and scratches
- Durable Duraflex Polyurethane Film

Part Number	Description
54-1011-00	Pushbutton Cover for Rectangle VLT with adapter bezel above panel
54-1011-01	Pushbutton Cover for Rectangle VLT with adapter bezel below panel
54-1012-00	Pushbutton Cover for Square VLT with adapter bezel above panel
54-1012-01	Pushbutton Cover for Small Square VLT without adapter bezel below panel
54-1013-00	Pushbutton Cover for Medium Rectangle VLT with adapter bezel above panel

BUTTON PLUGS FOR VLT PUSHBUTTONS

- For use in metal control panels
- Fills in unused button holes
- Two sizes to choose from
- Comes with nut
- Fits in .87" hole

52-6210-00

52-6209-00

Part Number	Description
52-6209-00	Button Plug, Medium Rectangle for VLT with nut
52-6210-00	Button Plug, Rectangle VLT with nut

BUTTON PLUGS

- For use on both wood and metal control panels
- Fills in unused button holes
- Comes with nut
- Button plug fits a $1^{1}/_{8}$" (1.125) hole, for horizontal and Ultimate pushbuttons
- IPB plug fits a $^{31}/_{32}$" (.97") hole, for illuminated pushbuttons

Button Plug with Nut

Button Plug for illuminated pushbutton

Part Number	Description
52-6212-00	Button Plug with Nut (1.13" dia.)
52-6214-00	Button Plug for Illuminated Pushbutton w/nut 31/32" (.97" dia.)

ILLUMINATED PUSHBUTTON WRENCH

- Dual purpose: one end suitable for illuminated pushbuttons, other end is for pushbuttons with microswitch (Ultimate Pushbutton and with Horizontal Microswitch Pushbuttons)

Part Number	Description
53-8002-00	Pushbutton Wrench

POKER/VLT PUSHBUTTON WRENCH

- Dual purpose: one end suitable for Poker/VLT pushbuttons, other end suitable for illuminated pushbuttons

Part Number	Description
53-8003-00	Poker/VLT Pushbutton Wrench

T 1-3/4 AND T 3-1/4 WEDGE BASE LED

Cluster

Single

- Save time and money by replacing your lamps with LEDs
- LEDs are maintenance free, lasting an average of 100,000 hours
- LEDs can reduce power consumption up to 80%
- Great for use on illuminated pushbuttons including poker / VLT pushbuttons
- Replace standard T 1-3/4 and T 3-1/4 wedge base lamps
- T 1-3/4 will also fit T 1-1/2 bases
- Designed to be drop-in replacements
- Direct replacements for 73, 86, 161, 194, 259 bulbs
- LEDs are equipped with a resistor

T 3-1/4 Base				
Part Number	**Color**	**LED Type**	**Volts**	**Lamp**
91-10WB-53W	White	Cluster (3)	6 vdc	#259
91-10WB-53B	Blue	Cluster (3)	6 vdc	#259
91-10WB-123W	White	Cluster (3)	12 vdc	#161, #194
91-10WB-123Y	Yellow	Cluster (3)	12 vdc	#161, #194
91-10WB-123R	Red	Cluster (3)	12 vdc	#161, #194.
91-10WB-123G	Green	Cluster (3)	12 vdc	#161, #194
91-10WB-123B	Blue	Cluster (3)	12 vdc	#161, #194

T 1-3/4 Base				
Part Number	**Color**	**LED Type**	**Volts**	**Lamp**
91-5WB-61W2	White	Single (1)	6 vdc	#86
91-5WB-61Y2	Yellow	Single (1)	6 vdc	#86
91-5WB-61R2	Red	Single (1)	6 vdc	#86
91-5WB-61G2	Green	Single (1)	6 vdc	#86
91-5WB-61B2	Blue	Single (1)	6 vdc	#86
91-5WB-121W2	White	Single (1)	12 vdc	#73
91-5WB-121Y2	Yellow	Single (1)	12 vdc	#73
91-5WB-121R2	Red	Single (1)	12 vdc	#73
91-5WB-121G2	Green	Single (1)	12 vdc	#73
91-5WB-121B2	Blue	Single (1)	12 vdc	#73

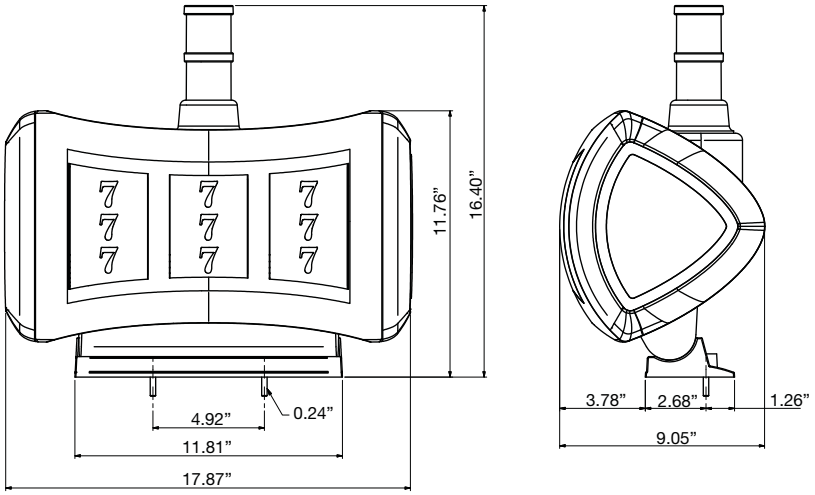
REEL TOPPER

New

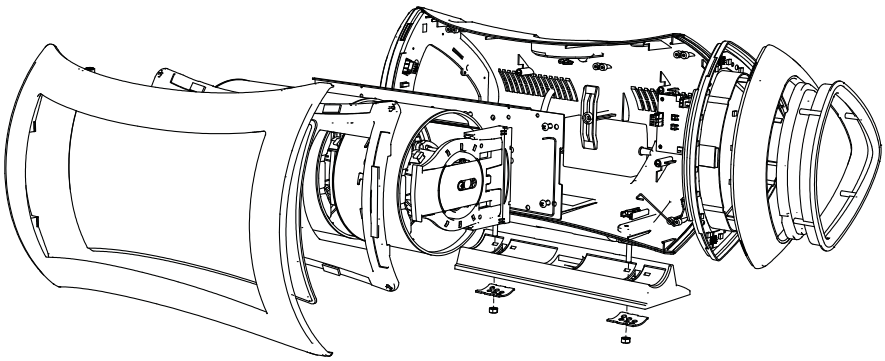
- Equipped with three Starpoint reels with 12 symbols/ stops that are 150mm in diameter and 90mm wide (a four reel version is in development)
- Illumination provided by multi-color Nichia LEDs
- Unique triangle shaped side illumination design provides attraction without distracting from the multi-reel action at the front of the topper
- Optional custom logo can be integrated on the center cap on the sides
- Bezel available in Chrome or Black Chrome
- Equipped with Xtopper which provides a customized RS232 (USB in future) control-board designed by Suzo-Happ
- Xtopper is a powerful tool which allows a game designer to make any interactive game concept
- XTopper is supplied with development kit that works with Windows and Linux
- Ideal for OEM's to economically upgrade existing machines already installed in the casino to create a total new game concept
- Two on-board power supplies provide power to control both reels along with the illumination
- Durable flame retardant UL94 VO ABS plastic housing
- Adjustable mounting base included
- Towerlight optional
- Size: 17.87" W x 11.77" H x 9.05" D

Part Number	Description
104-1XXX	Reel Topper

TOPPER DIMENSIONS



EXPLODED VIEW



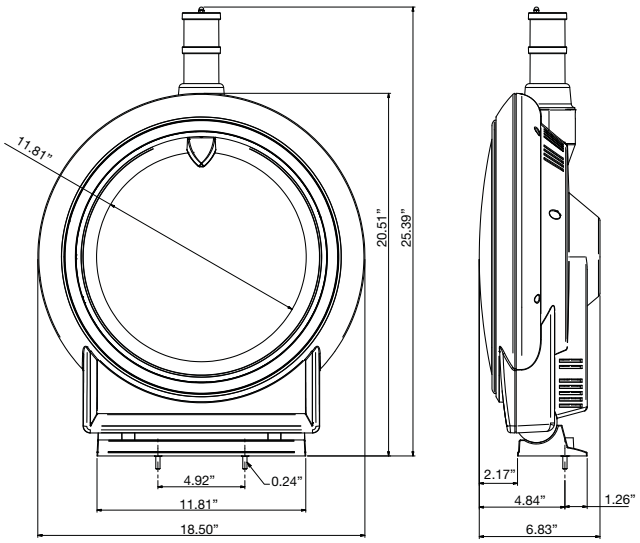
ROUND VIDEO TOPPER

New

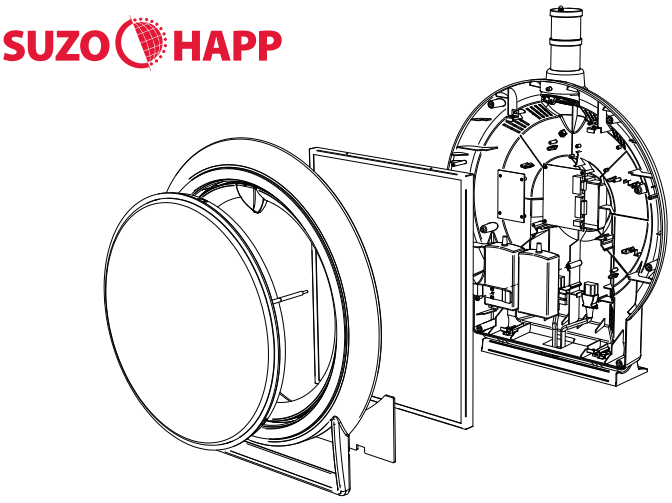
- Offers the game designer flexibility to incorporate new and varied concepts
- Any games based on a disc/wheel type such as Roulette, Lottery Wheel, Clock Type game are economical and easy to develop
- Elegantly designed in Samsung 19" LCD E4 panel with 178° wide viewing angle
- Provides the appearance of the top monitor being round
- Bottom section has two windows where game features can be displayed or they can be blanked out
- Monitor adjustments are easily accessible
- Two different illumination effects available
  - Multi-Color LEDs behind a translucent bezel
  - White LEDs behind a black chromed bezel
- Equipped with Xtopper which provides a customized RS232 (USB in future) control-board designed by Suzo-Happ
- Xtopper is a powerful tool which allows a game designer to make any interactive game concept
- XTopper is supplied with development kit that works with Windows and Linux
- Ideal for OEMs to economically upgrade existing machines already installed in the casino to create a total new game concept
- Durable and flame retardant UL94 VO ABS plastic housing
- Two on-board power supplies provide power to control both LCD panel along with the illumination
- Adjustable mounting base included
- CE approved
- Size: 18.50" W x 20.51" H x 6.81" D

Part Number	Description
104-2XXX	Round Video Topper

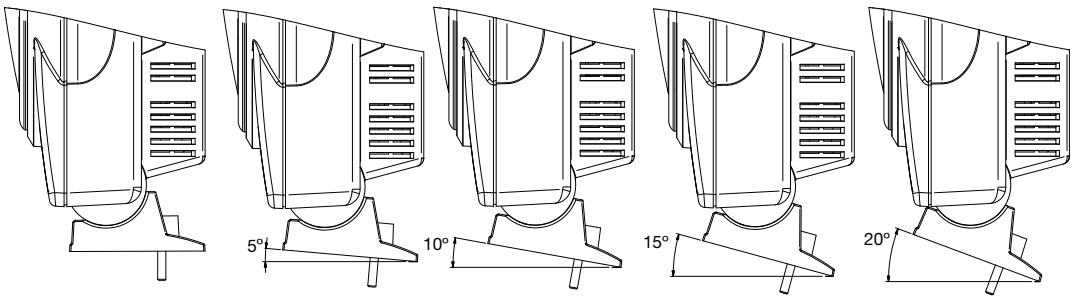
TOPPER DIMENSIONS



EXPLODED VIEW



ADJUSTABLE MOUNTING BASE



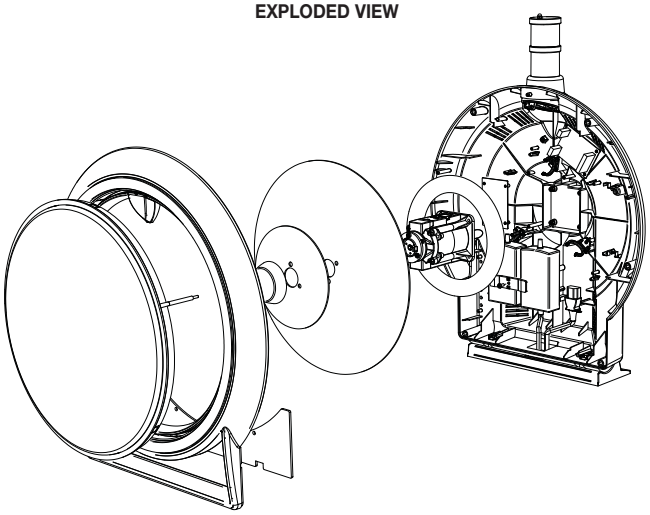
ROUND TOPPER

New

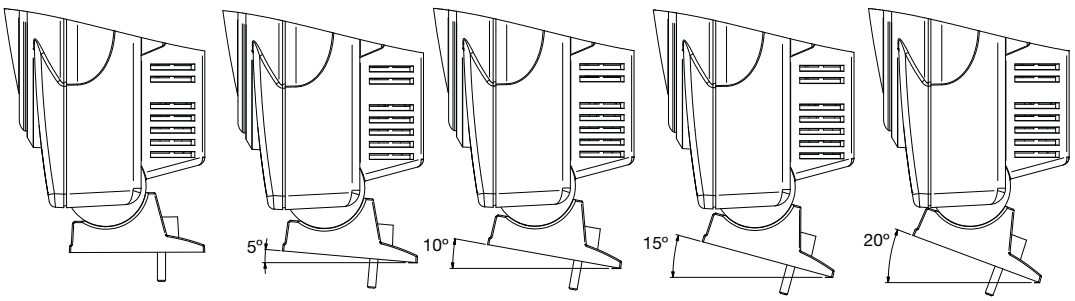
- Leading technology from Suzo-Happ and Starpoint are combined within this unique product
- Easy and economical to develop any game based on a disc/wheel such as Roulette, Lottery Wheel, Clock Type game
- Integrated disc-mechanism with 2 motors creates a new dimension
- Front and back disc mounted in sequence or a disc and arm can be independently controlled and run at different speeds and directions
- Equipped with Xtopper which provides a customized RS232 (USB in future) control-board designed by Suzo-Happ
- Xtopper is a powerful tool which allows a game designer to make any interactive game concept using the special disc and lighting effects
- XTopper is supplied with a development kit that works with Windows and Linux
- Offers the game designer flexibility to incorporate new and varied concepts
- Bottom section has two windows where game features can be displayed or they can be blanked out
- Two different illumination effects available
  - Multi-Color LEDs behind a translucent bezel
  - White LEDs behind a black chromed bezel
- Ideal for OEM's to economically upgrade existing machines already installed in the casino to create a total new game concept
- Two on-board power supplies provide power to control both disc units along with the illumination
- Adjustable mounting base included
- Durable and flame retardant UL94 VO ABS plastic housing
- Artwork panels are not included
- Size: 18.50" W x 20.51" H x 6.81" D

Part Number	Description
104-22XXX	Round Topper

EXPLODED VIEW



ADJUSTABLE MOUNTING BASE



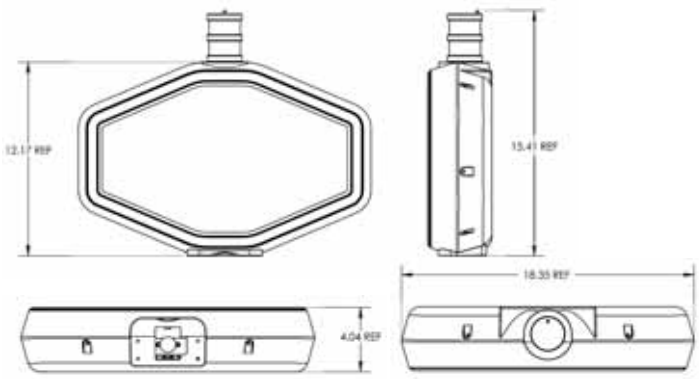
RGB POLYGON TOPPER

New

- Designed for use on IGT machines
- USB Version
  - Requires to be plugged into IGT host for complete game control of unique colors and flashing patterns sent from USB host
- Completely backlit by 4 SHARP Super bright white LEDs
- Includes tower light with color foils
- On board PCB allows stand alone operation or synchronization of up to eight topper boxes (synchronization cables required)
- Synchronize toppers to create unique patterns, for example a snake pattern that runs from one topper to the next
- Seven pre-programmed flashing patterns
- Ultra bright RGB Led's guarantee unequalled light output for a spectacular multi-colored lightshow
- Opaque bezel contains 48 bright Nichia multi-color LEDs
- Different attract modes including full on, rotating left to right and right to left, flashing and more
- Requires both 12VDC and +24VDC power
- Optional mounting bases available (Flat, Round, Slant and Arc)
- Body is constructed of black UL-94 VO flame resistant plastic
- Artwork not included or available
- Topper base sold separately

Pictured with Mounting Base (Sold Separately)
See Page 110

TOPPER DIMENSIONS



Part Number	Description
91440000	RGB Polygon Topper – USB for use on IGT Games
95-2852-00	RGB Polygon Topper – Non-USB for use on IGT Games

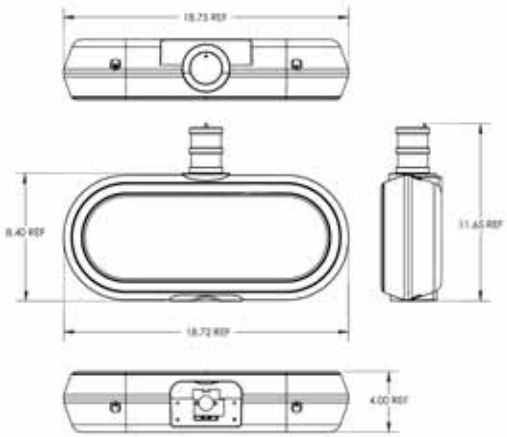
RGB PILL TOPPER

New

- Designed for use on IGT machines
- USB Version
  - Requires to be plugged into IGT host for complete game control of unique colors and flashing patterns sent from USB host
- Completely backlit by 3 SHARP Super bright white LEDs
- Includes tower light with color foils
- On board PCB allows stand alone operation or synchronization of up to eight topper boxes (synchronization cables required)
- Synchronize toppers to create unique patterns, for example a snake pattern that runs from one topper to the next
- Seven pre-programmed flashing patterns
- Ultra bright RGB LEDs guarantee unequalled light output for a spectacular multi-colored lightshow
- Opaque bezel contains 44 bright Nichia multi-color LEDs
- Different attract modes including full on, rotating left to right and right to left, flashing and more
- Requires both 12VDC and +24VDC power
- Optional mounting bases available (Flat, Round, Slant and Arc)
- Body is constructed of black UL-94 VO flame resistant plastic
- Artwork not included or available
- Topper base sold separately

Pictured with Mounting Base (Sold Separately)
See Page 110

TOPPER DIMENSIONS



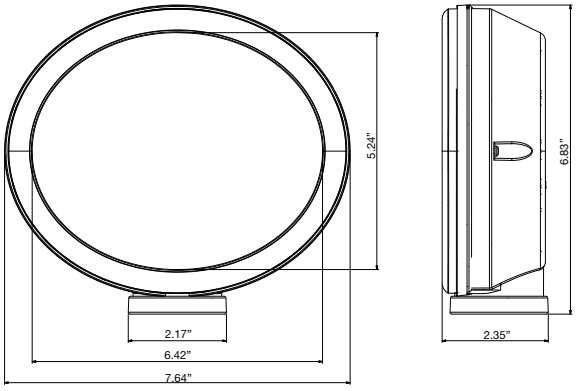
Part Number	Description
91440100	RGB Pill Topper – USB for use on IGT Games
95-2850-00	RGB Pill Topper – Non-USB for use on IGT Games

TOWER LIGHT TOPPER

New

- Designed to be mounted on top of any standard round classic tower light with the included special top mounting bracket
- Great for advertising special machine features such as Multi-Denomination, Ticket-In Ticket-Out, Hot New Game, Server Based Gaming, etc.
- Translucent bezel with 20 ultra bright Nichia multi-color RGB LEDs provide light output for a elegant multi-colored lightshow
- Pre-Programmed with 8 unique flashing patterns and 7 different color combinations
- Backlit by 9 white high power Nichia LEDs
- Operates on 12vdc power
- Optional harness 11-2801-00 makes it easy to install on existing games by simply tapping into 12vdc and ground
- Artwork panel and tower light are not included
- Durable and flame retardant UL94 VO ABS plastic housing
- Small in size: 7.64” W x 6.83” H x 2.34” D

TOPPER DIMENSIONS



SUZO HAPP

Part Number	Description
104-08000	Tower Light Topper

PRINTED PLEXI FOR TOWER LIGHT TOPPER

New

- Draw attention to your new game with these eye catching printed plexis
- A great way to draw attention to a bank of new machines or highlight the denomination
- Designed to fit the Tower Light Topper (part number 104-08000)
- Tower Light Topper (sold separately) mounts on top of any standard classic tower light (sold separately)

Part Number	Description
95-3656-00	Hot New Game Plexi for Tower Light Topper
95-3657-00	1 Cent Denomination Plexi for Tower Light Topper
95-3658-00	5 Cents Denomination Plexi for Tower Light Topper
95-3659-00	25 Cents Denomination Plexi for Tower Light Topper
95-3660-00	$1 Denomination Plexi for Tower Light Topper

TOWER LIGHT TOPPER BASE / CAP FOR WMS TOWER LIGHT

New

- New replacement black top cap that replaces the existing top cap of a WMS Gaming tower light
- Has the necessary mounting provisions to mount the Tower Light Topper (Part Number 104-08000)

Part Number	Description
PR020-670-03	Tower Light Topper Base/ Cap for WMS

LED XENON TOPPER

- The Xenon Topper has a low profile to accommodate locations where ceiling height is a problem
- On board PCB allows stand alone operation or up to 8 toppers to be synchronized to work in a collective pattern
- Toppers can be synchronized to create unique patterns, for example a snake pattern that runs from one topper to the next
- Up to 8 toppers can be synchronized using cables
- Made of durable flame retardant UL94 VO ABS plastics with chrome bezel
- Ultra bright Led's guarantee unequalled light output for a spectacular multi-colored lightshow
- Back lighted by 11Watt SL Lamp
- Chrome bezel contains 32 bright LEDs
- Seven pre-programmed flashing patterns
- Different attract modes including twinkling, waves, fades and rollercoaster effects
- Whole unit operates on 12VDC power
- Optional mounting base for flat top machines (part number 104-0025)
- Blank plexi panel available (part number 96-0915-00)
- Tower light optional
- Artwork not included or available

SUZO HAPP

Part Number	Description
104-07890	LED Xenon Low Profile Topper
104-0025	Mounting Base for Xenon Topper for Flat Top Machines
95-2846-00	Mounting Bracket for Xenon Topper for Round Top Machines
80-0414-10	Power Supply for Xenon Topper
96-0915-00	Optional Clear Plexi for Xenon Topper
9902-11	Replacement 12V 11 Watt Fluorescent

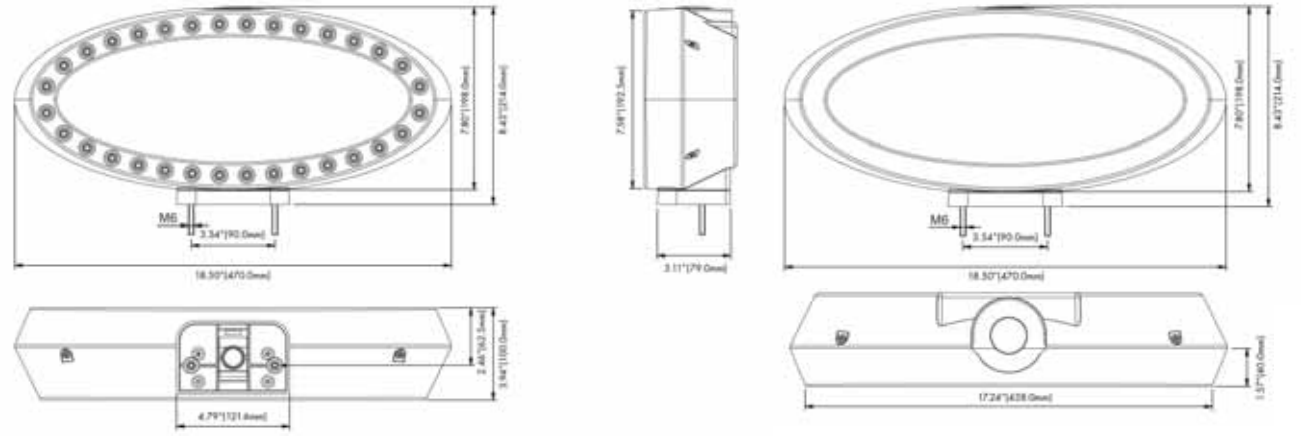
LOW PROFILE

SYNCHRONIZE UP TO 8 UNITS

104-0025

95-2846-00
See Page 111 for Dimensions

TOPPER DIMENSIONS



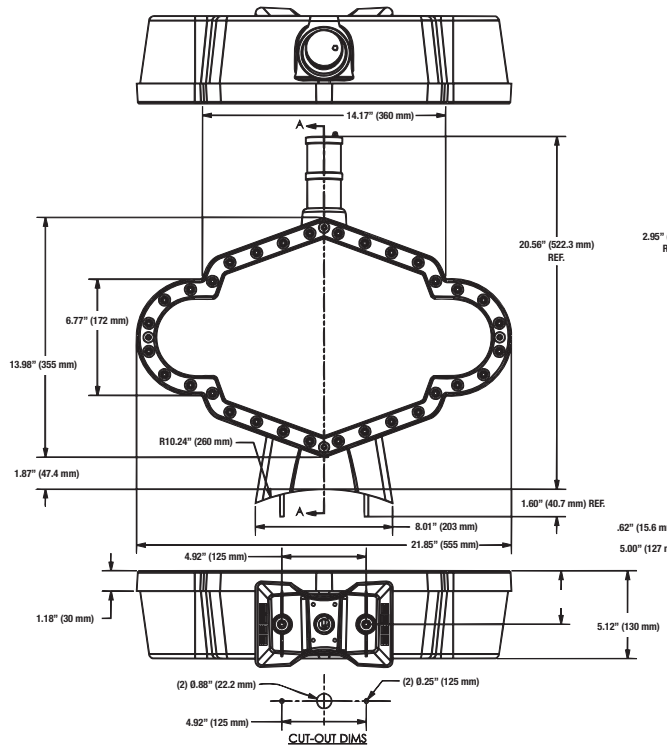
"RINGO" MODEL TOPPER BOX

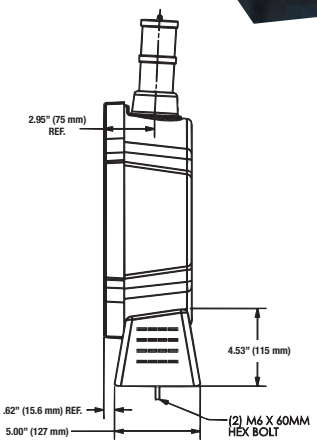
- Made of durable plastics with bright chrome or gold (additional charge) bezel
- Back lighted by 11Watt SL Lamp
- Panels surrounded by 32 bright white LEDs
- Artwork panels not included
- Different attract modes including twinkling, full on, rotating left to right and right to left
- Whole unit operates on 12VDC power
- Optional flat or radius mounting brackets with two mounting studs available to accommodate different cabinet configurations
- Body is constructed of black flame retardant UL94 VO ABS plastic, color customization available
- Optional towerlight
- Artwork not included or available
- Topper base sold separately (See page 110 for bases)
- Optional black plexi panel (Part Number 95-2740-00)
- Optional Gold or Black chrome bezel available

Pictured with Mounting Base
(Sold Separately)
See Page 110

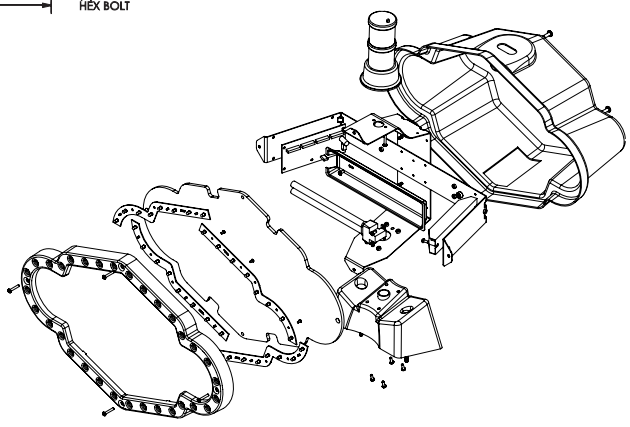
SUZO HAPP

TOPPER DIMENSIONS





EXPLODED VIEW



Part Number	Description
104-03890	Ringo Topper, Chrome

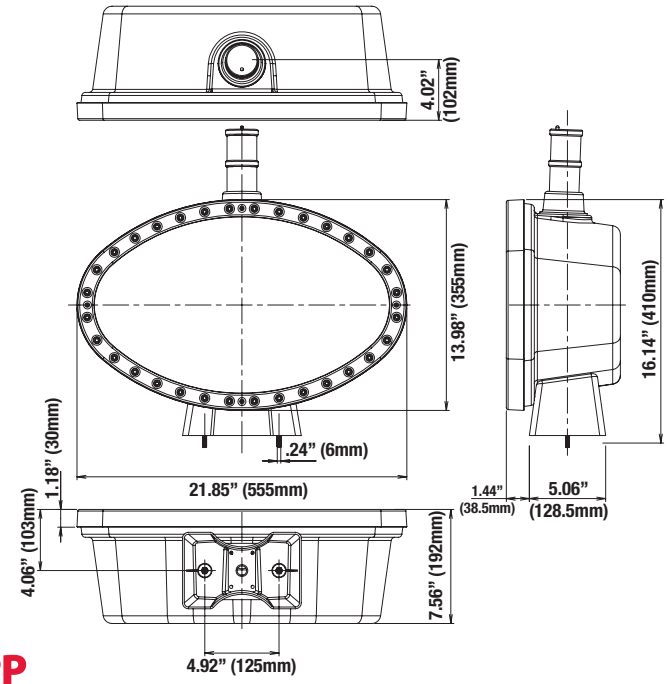
All Parts for Topper Boxes Sold Separately

"ELLIPSE" MODEL TOPPER BOX

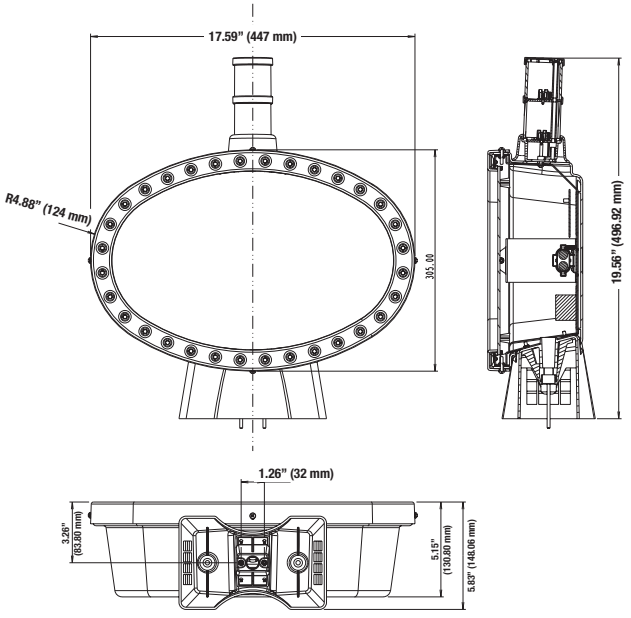
Pictured with Mounting Base
(Sold Separately)
See Page 110

SUZO HAPP

ELLIPSE TOPPER DIMENSIONS



MINI ELLIPSE TOPPER DIMENSIONS



- Made of durable plastics with bright chrome bezel
- Back lighted by 11Watt SL Lamp
- Panels surrounded by 32 bright white LEDs
- Artwork panels not included
- Different attract modes including twinkling, full on, rotating left to right and right to left
- Whole unit operates on 12VDC power
- Optional flat or radius mounting brackets with two mounting studs available to accommodate different cabinet configurations
- Body is constructed of black flame retardant UL94 VO ABS plastic, color customization available
- Optional tower light
- Artwork not included or available
- Topper base sold separately (See page 110 for bases)
- Optional black plexi panel (Part Number 95-2738-00)
- Optional Gold or Black chrome bezel available

Part Number	Description
104-05890	Ellipse Topper, Chrome
104-06890	Mini Ellipse Topper, Chrome

All Parts for Topper Boxes Sold Separately

ELLIPSE LCD TOPPER

New

The World's First Topper with a 15" LCD Screen

- Features a 15" LCD monitor and media controller board
- Display your own MPEG video and/or JPEG pictures
- Graphic plexi insert included gives the LCD an added layer of protection
- Durable flame retardant UL94 VO ABS plastic construction with bright chrome bezel
- Bezel surrounded by 32 bright white LEDs
- Different attract modes including twinkling, full on, rotating left to right and right to left
- Entire unit operates on one 12VDC power supply included (80-0414-10)
- Flat, angled or radius base sold separately and required for mounting to your cabinet configuration
- Body is constructed of black styrene, color customization available
- Optional tower light sold separately
- Optional gold or black chrome bezel available

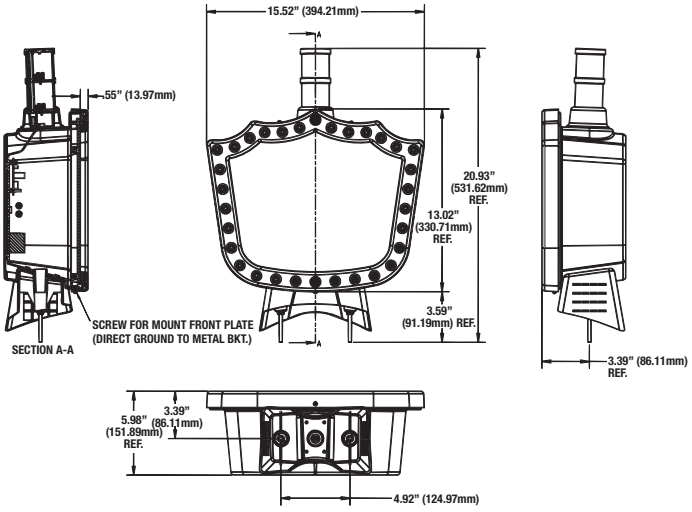
Pictured with Mounting Base
(Sold Separately)
See Page 110

Part Number	Description
104-058191	Ellipse LCD Topper, Chrome (Media Controller Board & 1GB Compact Flash Card Included)
104-05890-15K	Ellipse LCD Topper, Chrome (Media Controller Board & Compact Flash Card NOT Included)

All Parts for Topper Boxes Sold Separately

"SHIELD" MODEL TOPPER BOX

- Made of durable plastics with bright chrome or gold (additional charge) bezel
- Back lighted by 11Watt SL Lamp
- Panels surrounded by 32 bright white LEDs
- Artwork panels not included or available
- Different attract modes including twinkling, full on, rotating left to right and right to left
- Whole unit operates on 12VDC power
- Optional flat or radius mounting brackets with two mounting studs available to accommodate different cabinet configurations
- Body is constructed of black flame retardant UL94 VO ABS plastic, color customization available
- Topper base sold separately (See page 110)
- Optional black plexi panel (Part Number 95-2739-00)
- Optional Gold or Black chrome bezel available



Pictured with Mounting Base
(Sold Separately)
See Page 110

Part Number	Description
104-04891	Shield Topper, Chrome

All Parts for Topper Boxes Sold Separately

SYNCRONIZED RGB TOPPER BOX

- Up to 8 toppers can be synchronized using cables
- Toppers can be synchronized to create unique patterns, for example a snake pattern that runs from one topper to the next
- Seven pre-programmed flashing patterns
- Made of durable plastics with opaque bezel
- Ultra bright LEDs guarantee unequalled light output for a spectacular multi-colored lightshow
- Back lighted by 11Watt SL Lamp
- Opaque bezel contains 32 bright Nichia multi-color LEDs
- Different attract modes including twinkling, full on, rotating left to right and right to left, flashing and more
- Whole unit operates on 12VDC power
- Optional flat or radius mounting brackets with two mounting studs available to accommodate different cabinet configurations
- Body is constructed of black flame retardant UL94 VO ABS plastic, color customization available
- Tower light optional
- Artwork not included or available
- Topper base sold separately (See page 110)

EXAMPLES OF PROGRAMMED FLASHING PATTERNS

Pictured with Mounting Base (Sold Separately)
See Page 110

Part Number	Description
104-06000	Synchronized RGB Topper Box

TOPPER BOX SYNCHRONIZER

- Allows the synchronization of up to 8 topper boxes to work in a collective pattern
- Greatly increases the effect of the toppers when placed on a bank of machines
- Nine pre-programmed flashing patterns
- Easy to use software allows custom patterns
- Wave, fade, twinkle and rollercoaster are a few of the patterns available
- Works on all older generation topper boxes from Suzo-Happ
- Just replace the existing control board in each topper
- A simple RJ45 cable connects each top box with the next one
- Also works with Light Strips (10 & 20 LEDs)

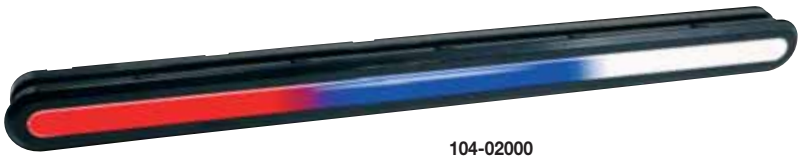
Part Number	Description
104-0051	Topper Box Synchronizer

REPLACEMENT COMPACT FLUORESCENT LAMP

Part Number	Description
9902-11	Replacement Compact Fluorescent Lamp

RGB LED LIGHT STRIPS

New



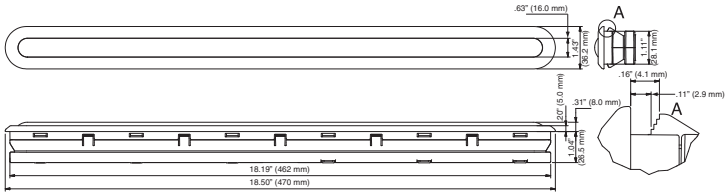
104-02000

104-02001

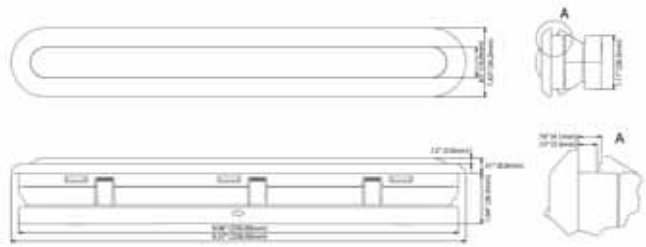
- Light strips with opaque bezel contains bright multi color LEDs and when mounted to your cabinet they provide a dazzling light show
- Can be used by themselves
- LED light strip controller sold separately (104-0056 or 104-0062)
- Wire harness sold separately

Part Number	Description
104-02000	RGB LED Light Strip -20 LEDs
104-02001	RGB LED Light Strip -10 LEDs

104-02000 DIMENSIONS



104-02001 DIMENSIONS



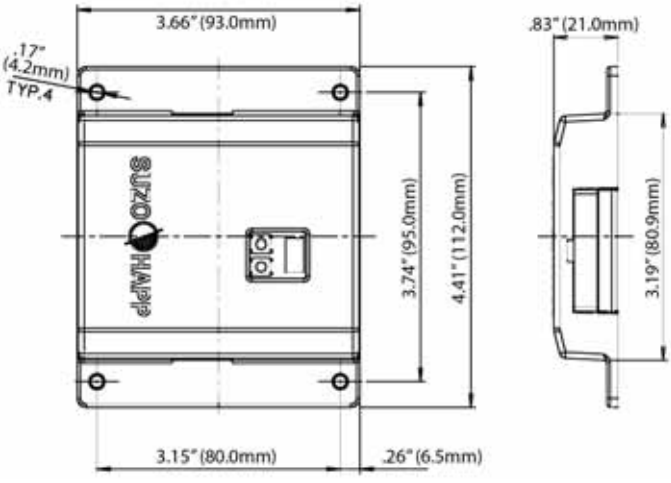
LIGHT STRIP CONTROLLERS

New

- These light strip controllers provide seven pre-defined color and seven pre-defined flashing patterns
- Can synchronize/link color and flashing patterns between controllers and light strips (link cables sold separately) 4 light strips of 10 or 2 strips of 20
- Controllers available for 20 LEDs or 40 LEDs
- +12vdc Operation

104-0056

104-0062



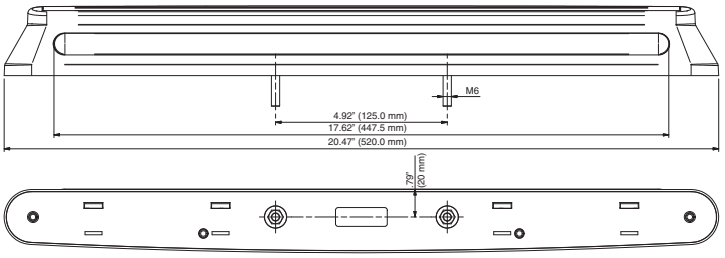
Part Number	Description
104-0056	Light Strip Controller – 20 LEDs (2 x 10) (1 x 20)
104-0062	Light Strip Controller – 40 LEDs (4 x 10) (2 x 20)

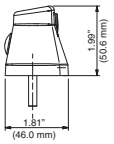
UPRIGHT TOPPER

- Highlight your machine with a sophisticated look
- Multi-colored LEDs illuminate your engraved or screened sign from below
- Artwork and sign (not included) can be engraved or screened on transparent materials (10 mm thick) such as acrylic plastic
- The sign can be cut into any desired shape
- To enhance the illumination effect it is recommended that the outside edges be white.

Part Number	Description
104-01000	Upright Topper

104-01000





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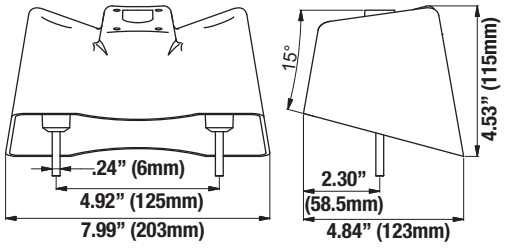
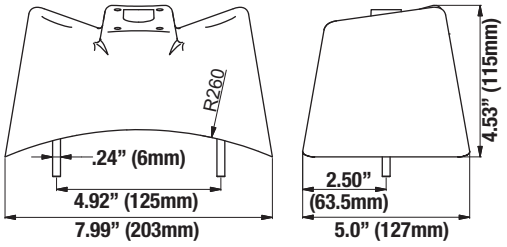
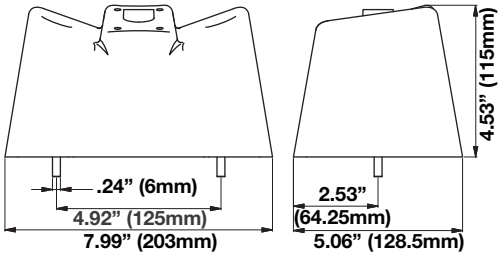
TOPPER BOX BASES



104-0010-1 (SLANTING)



104-0015-1 (CURVED)



104-0020-1 (FLAT)

Part Number	Description
104-0010-1	Topper Base, 15° Slanting
104-0015-1	Topper Base, 250° Curved for Round Top
104-0020-1	Topper Base, Flat
104-0001	Adaptor Bracket for Tower Light Holes (not pictured)

Topper Box Accessories

MOUNTING BRACKET FOR XENON TOPPER FOR FLAT TOP MACHINES

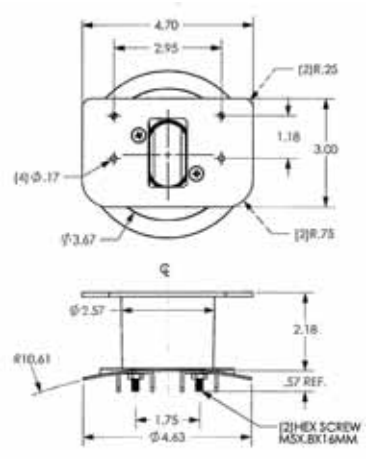
- For LED Xenon Topper
- For all flat top machines

Part Number	Description
104-0025	Mounting Bracket for Xenon Topper for Flat Top Machines

MOUNTING BRACKET FOR XENON TOPPER FOR ROUND TOP MACHINES

New

DIMENSIONS



Part Number	Description
95-2846-00	Mounting Bracket for Xenon Topper for Round Top Machines

HARNESS ADAPTER KIT FOR TOPPER BOXES

- Adapts to IGT Game King Plus and I-Games Plus

Part Number	Description
96-0769-00	Harness Adapter Kit for Topper Boxes

REPLACEMENT COMPACT FLUORESCENT LAMP

Part Number	Description
9902-11	Replacement Compact Fluorescent Lamp

BALLAST FOR SUZO-HAPP TOPPERS

- Also for Atronic E-Motion toppers
- 12 or 24 VDC
- UL Approved

Part Number	Description
22-0139	24V Ballast for Atronic e-motion Toppers
22-0138	12V Ballast for Atronic e-motion Toppers

TOWER LIGHT ADADPTER BRACKET

Part Number	Description
104-0001	Tower Light Adapter Bracket

TOWER LIGHT ADAPTER HARNESS

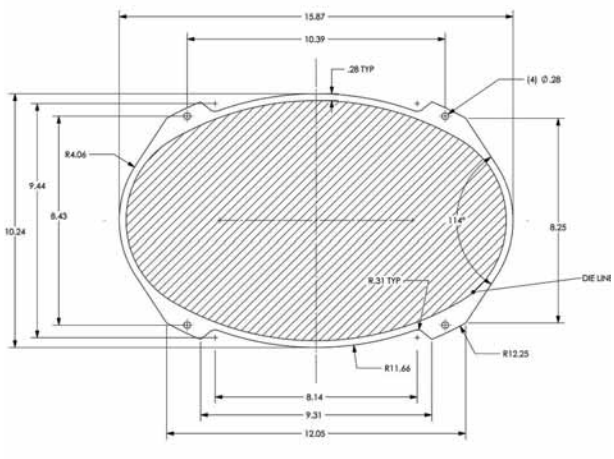
- Adapts to WMS, IGT and Sigma

Part Number	Description
96-0565-00	Tower Light Adapter Harness

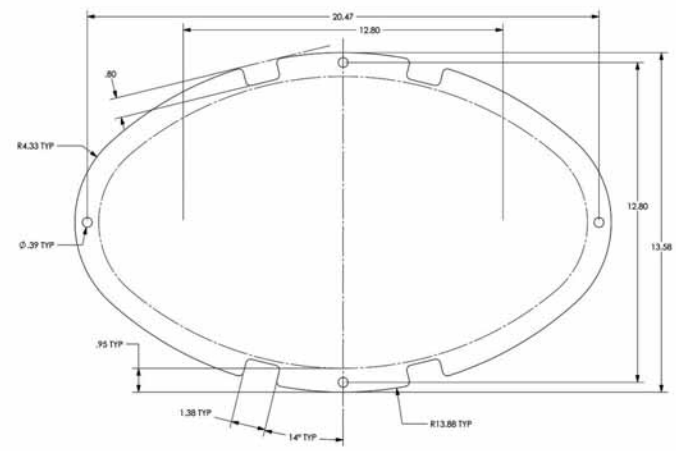
12V DC PLUG IN POWER SUPPLY

Part Number	Description
80-0414-10	12V DC Plug In Power Supply

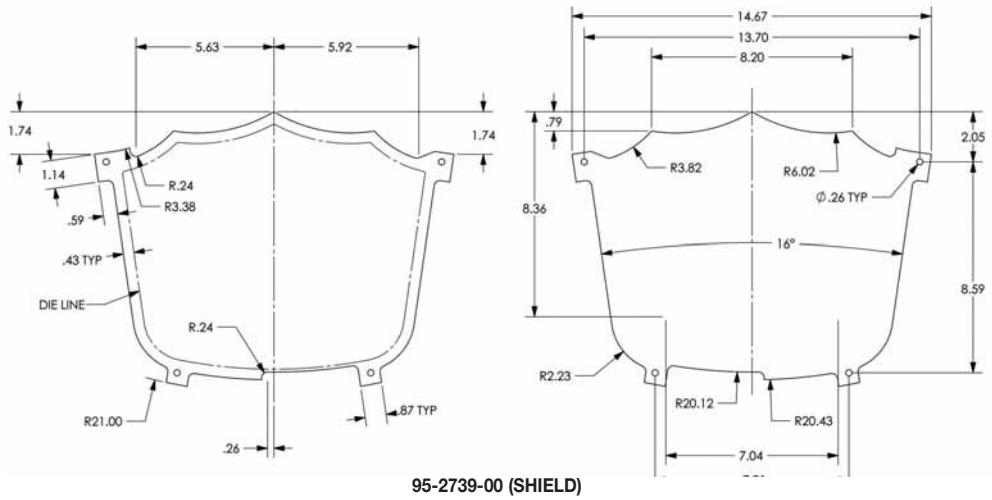
BLANK TOPPER BOX PLEXI GLASS



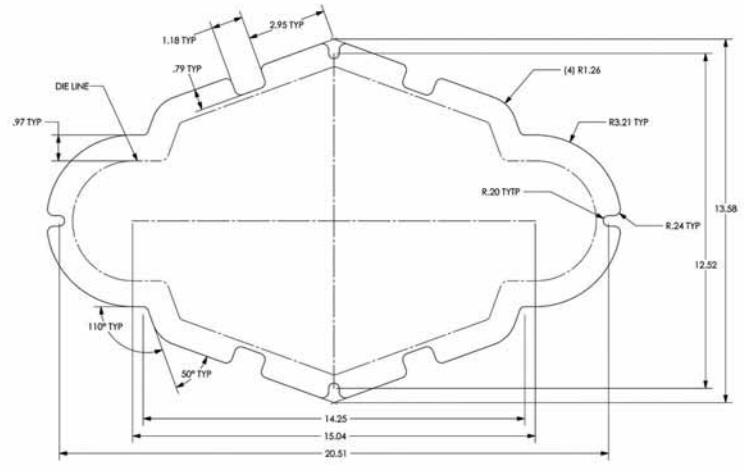
95-2746-00 (MINI ELLIPSE)



95-2738-00 (ELLIPSE)



95-2739-00 (SHIELD)



95-2740-00 (RINGO)

Part Number	Description
95-2746-00	Mini Ellipse Blank Plexiglass
95-2738-00	Ellipse Blank Plexiglass
95-2739-00	Shield Blank Plexiglass
95-2740-00	Ringo Blank Plexiglass

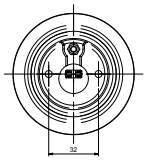
All Parts for Topper Boxes Sold Separately

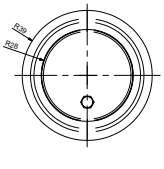
Visit suzohapp.com for Free PDF Templates of topper box plexi glass to aid in designing your custom graphics.

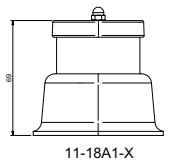
CLASSIC TOWER LIGHTS

- Two different lens heights to accommodate your cabinet design
- Standard version is for upright cabinets, Mini for sit down models
- Both Standard and Mini versions available with chrome or gold plating
- Available with one, two or three lights; 6 different colors for various combinations
- Bag containing one of each color (red, orange, yellow, green, blue and white) insert included for each tier
- White shield foil made from special heat resistant Formex material
- Standard Molex plug and harness included
- All "Classic" Tower Lights include UL approved wiring, separate ground strap and 12V – 3W 0.39" (10mm) wedge base lamps
- Optional 12V 10mm wedge base LED replacement (91-1068-00)
- All Classic towerlights are standard including UL approved wiring, seperate ground strap and fitted with 12V - 3W 10mm wedge base lamps.
- Standard Molex plug & Harness Included

SUZO HAPP

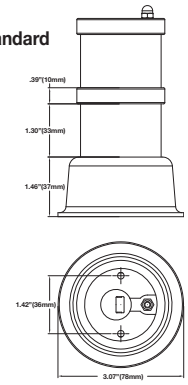




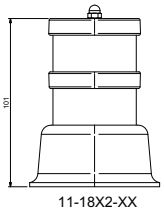


11-18A1-X

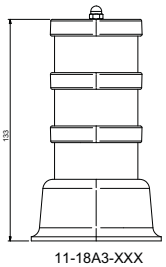
Standard



Mini

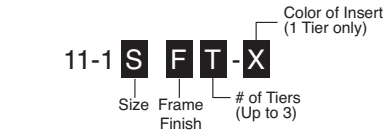


11-18X2-XX



11-18A3-XXX

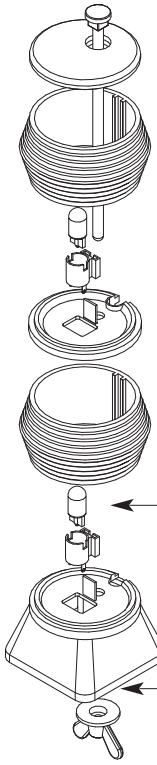
Design Your Tower Light with the Matrix Below



S= Size	F= Frame Finish	T= Tiers
7= Standard	4= Gold	1= One Tier
8= Mini	8= Chrome	2= Two Tiers
		3= Three Tiers

DIAMOND TOWER LIGHTS

- Available in black, chrome or gold plated frames
- Stylish design
- Standard 0.39" (10mm) wedge base lamp holder for easy replacement
- Available with one, two, three or four lights
- Standard colors: red, orange, yellow, green, blue and white
- Lamps and harnesses not included; 6 different color combinations
- Optional 12V 10mm wedge base LED replacement (91-1068-00)



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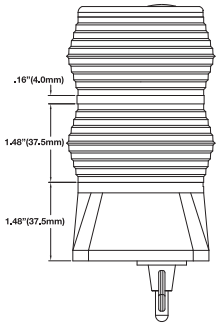
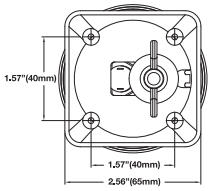
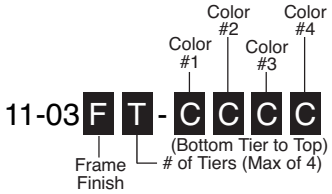
Lamp holder
11-0090

Wing-nut
1060-086-2





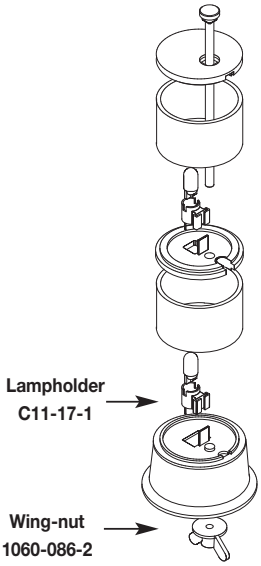
Design Your Tower Light with the Matrix Below



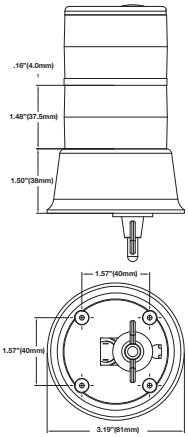
F= Frame Finish	T= Tiers	C= Color
0= Black	1= One Tier	2= Red
4= Gold	2= Two Tiers	3= Orange
8= Chrome	3= Three Tiers	4= Yellow
	4= Four Tiers	5= Green
		6= Blue
		9= White

CANDLE TOWER LIGHTS

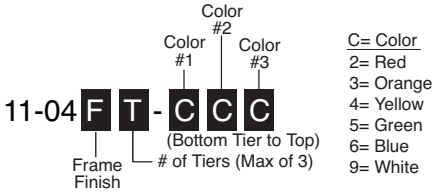
- Traditional design
- Available in black, chrome or gold frame finish
- Easy lamp replacement using a standard 0.39" (10mm) wedge base
- Tower lights are available in one, two or three lights and in 6 different colors
- Available colors: red, orange, yellow, green, blue and white
- Please specify color and combination
- Lamps and harnesses not included
- Optional 12V 10mm wedge base LED replacement (91-1068-00)



SUZO HAPP



Design Your Tower Light with the Matrix Below



C= Color
2= Red
3= Orange
4= Yellow
5= Green
6= Blue
9= White

F= Frame Finish
0= Black
4= Gold
8= Chrome

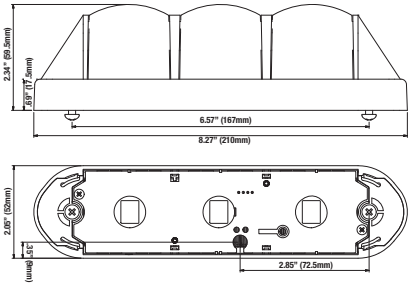
T= Tiers
1= One Tier
2= Two Tiers
3= Three Tiers

LIGHT TRAIN TOWER LIGHTS

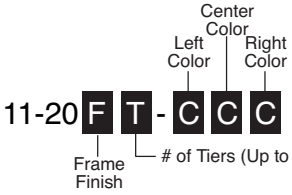
This horizontal tower light is a very unique style for your casino machines.

- Available with 1, 2 or 3 lights
- Frame and blanks in bright chrome or gold finish.
- Standard equipped with 12V 3W wedge base lamps. (SLI)
- Better light-spread due to the use of special heat resistant lamp domes
- Easy to mount; only two screws and additional hole
- Special adaptor available for round top machines (also customized)
- Optional 12V 10mm wedge base LED replacement (91-1068-00)

SUZO HAPP



Design Your Tower Light with the Matrix Below



C= Color
2= Red
3= Orange
4= Yellow
5= Green
6= Blue
9= White
B= Blank

F= Frame Finish
4= Gold
8= Chrome

T= Tiers
1= One Tier (Classic Only)
2= Two Tiers
3= Three Tiers

ACRYLIC SIGN HOLDER

- Clear acrylic tubing fits over slot tower light to holds signs
- Slot tower light is easily visible through the clear acrylic
- Slotted at both ends to hold a wide variety of signs
- One slot is .25" wide x 2" long to hold flat slot toppers or foam core board
- One slot is 1/16"wide x 1" long for thinner signage such as paddles
- Size: 2.25" ID x 2.50" OD x 8" High
- (Light Tower Not Included)

Part Number	Description
27-1461-00	Acrylic Sign Holder

LIGHT TRAIN TOWER LIGHT ADAPTOR BRACKET

- Mounts Light Train to round top machines
- Available in black, chrome and gold finish
- Standard supplied in 260˚ radius
- Custom shapes available upon request

Part Number	Description
11-0200	Light Train Base Black 260˚ radius
11-0200-4	Light Train Base Gold 260˚ radius
11-0200-8	Light Train Base Chrome 260˚ radius

EVOLUTION COIN HOPPER

- This belt driven hopper has been re-engineered and the result is an improvement over existing belt driven hoppers in its performance and maintenance
- This unique concept provides a single build type hopper that is suitable for 95% of the world's coins and tokens without needing any adjustments
- The Evolution Hopper is suitable for many applications such as: Vending, Parking, Change, Amusement and Gaming machines
- Made from extremely strong, wearing resistant plastics in combination with state of the art electronics resulting in low cost of ownership
- Large DC motor in combination with electronic motor control board for reduced friction and motor noise
- Optic board is easily accessible by removing the electronic control board from outside the hopper
- Connector can be easily changed from front to back by just loosening two screws and pulling the cable with connector in its position (reduced inventory for manufacturers that use both styles)
- The Evolution Hopper is available in different interfaces: Standard parallel, ccTalk encrypted and non-encrypted serial interfaces
- Serial interfaces provide higher security and better diagnostics especially by networked machines
- Supplied with standard quick-fit and release plate, connector as shown or optional with Bulgin connector
- Specific models Replace Money Controls hoppers within Western Money Systems TicketXchange and CasinoXchange kiosks.

Bulgin (Black) Connector

SUZO HAPP

Cinch (Yellow) Connector

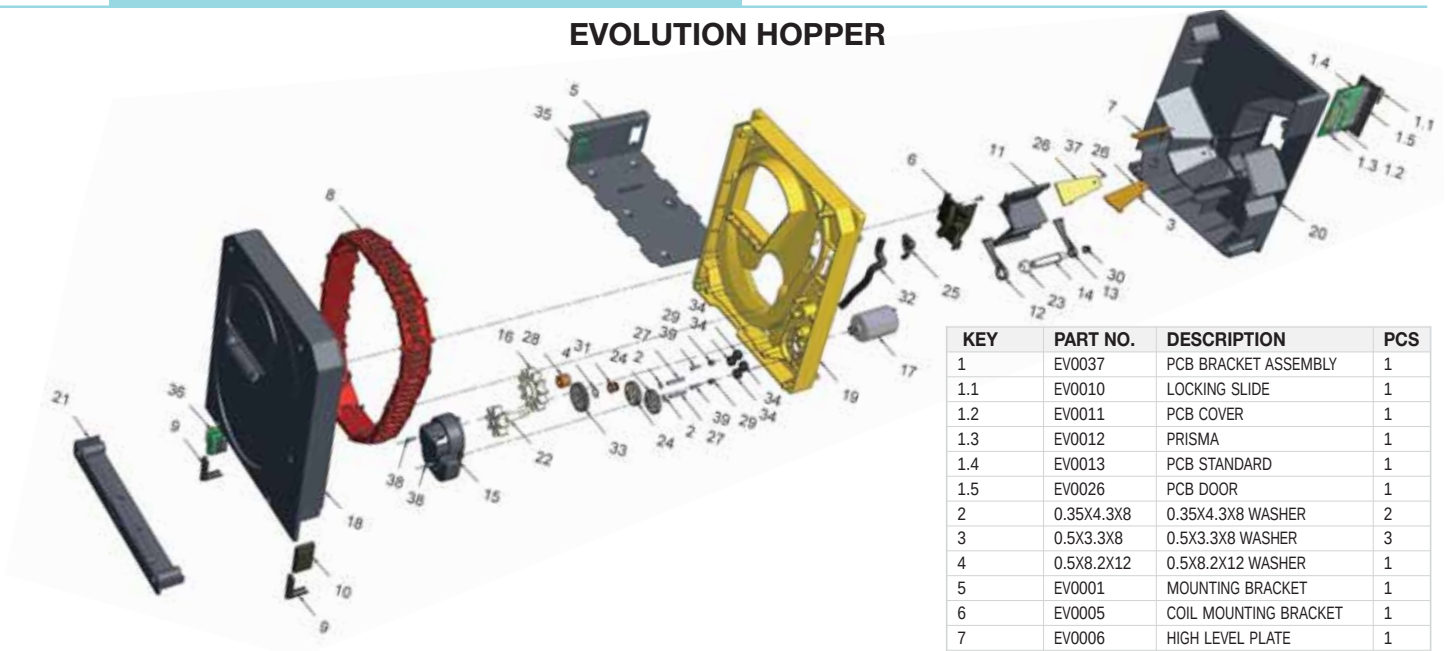
Features:

- Modular space - efficient system
- High Capacity > 1500 coins of Quarters
- RoHS Complaint
- In build agitator to prevent coin jams
- Hopper is protected by anti-jam electronics
- Large motor reduces motor noise
- High quality materials for long trouble free operation
- Easily removable and accessible electronics
- Hopper connector can easily be changed from front to back
- Low and high level sensing
- Competitively priced
- Low cost of ownership
- 3 Different coin sizes available: 16.25-20.9mm, 19-26.4mm (Euro Hopper), 21-30mm

For more information contact your nearest Suzo-Happ office

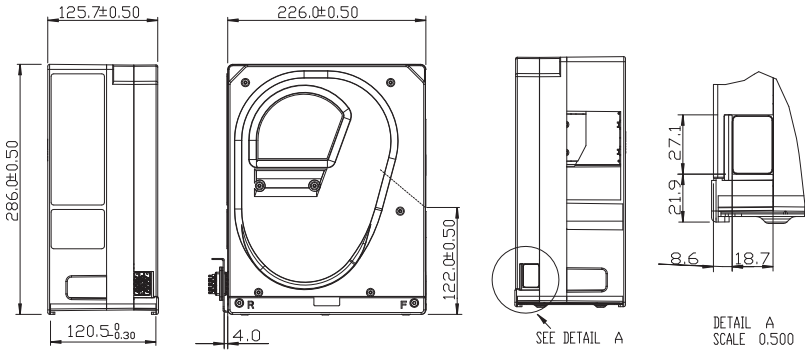
Part Number	Description
EV100-001B	For 5¢, 25¢, SBA with Yellow (Green) Connector pulse or on/off
EV100-011B	For 5¢, 25¢, SBA with Black Connector pulse or on/off (Used by American Changer® and Namco Cybertainment®)
EV100-201B	For 5¢, 25¢, SBA with Yellow (Green) Connector CCTalk
EV100-101BS	5¢, 25¢, SBA for Western Money Systems
EV100-101CS	For 1¢ for Western Money Systems

EVOLUTION HOPPER



KEY	PART NO.	DESCRIPTION	PCS
1	EV0037	PCB BRACKET ASSEMBLY	1
1.1	EV0010	LOCKING SLIDE	1
1.2	EV0011	PCB COVER	1
1.3	EV0012	PRISMA	1
1.4	EV0013	PCB STANDARD	1
1.5	EV0026	PCB DOOR	1
2	0.35X4.3X8	0.35X4.3X8 WASHER	2
3	0.5X3.3X8	0.5X3.3X8 WASHER	3
4	0.5X8.2X12	0.5X8.2X12 WASHER	1
5	EV0001	MOUNTING BRACKET	1
6	EV0005	COIL MOUNTING BRACKET	1
7	EV0006	HIGH LEVEL PLATE	1
8	EV0007	TRACK PLATE	16
9	EV0008	PLUG ADAPTOR BRACKET	2
10	EV0009	PORT BLANC	1
11	EV0014	COIN SHAKER	1
12	EV0015	SHAKER ARM A	1
13	EV0016	SHAKER ARM B	1
14	EV0017	CAMSHAFT	1
15	EV0018	GEARBOX COVER	1
16	EV0019	OUTPUT GEAR	1
17	EV0020	MOTOR 24VDC AND GEAR	1
18	EV0022	REAR-CABINET	1
19	EV0023	MIDDLE-CABINET	1
20	EV0024	FRONT-CABINET	1
21	EV0025	BOTTOM COVER	1
22	EV0027	IDLER GEAR	1
23	EV0028	CAMSHAFT BUSHING	1
24	EV0029	GEAR 12-34T	2
25	EV0030	CABLE-CLAMP	1
26	EV0031	LOW LEVEL PLATE	2
27	EV0032	GEAR SHAFT	2
28	EV0033	GEAR BUSHING	1
29	EV0034	SCREW BUSHING	2
30	EV0035	CAM BUSHING	1
31	EV0036	IDLER GEAR BUSHING	1
32	EV0039	CABLE WITH CONNECTOR	1
33	EV0040	GEAR 40T	1
34	EV0041	RUBBER ROLLER	4
35	EV24-11	MALE SOCKET 12 PIN	1
36	EV24-11-1	FEMALE SOCKET 12 PIN	1
37	LOCK PIN	LOCK-PIN	3
38	PHC M308N	SCREW	3
39	PHC M310S	SCREW	2

Convenient cleaning of the coin optics by taking out the electroninc and optic board without the use of tools.



EMC approval:

- EN 55014-1 (2000) + A1 (2001) + A2 (2002): Electromagnetic Compatibility: Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
- EN 55014-2 (1997) + A1 (2001): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity – Product family standard
- EN 61000-3-2 (2000): Electromagnetic compatibility - Part 3-2: Limits - Limits for Harmonic current emissions (equipment input current < 16A per phase)
- EN 61000-3-3 (1995) + A1 (2001): Electromagnetic compatibility - Part 3: Limits - Section 3: Limitation of voltage fluctuations and flicker in low- voltage supply systems for equipment with rated current < 16A

FCC approval:

- 47CFR15: Radio Frequency Devices

Coin range:	Diameter	.63-1.22"	
	Thickness	.05-.14"	
Coin capacity:	1100 x E1		
Payout speed:	approx. 270 coins per minute		
Electrical Interface:		Parallel	Serial
Voltage:	Nominal	24 VDC	24 VDC
	Minimum	18 VDC	20 VDC
	Maximum	26 VDC	26 VDC
Current (typical):	Idle	40 mA	40 mA
	Empty	0.2 A	0.2 A
	Full	0.7 A	0.7 A
	Surge	2.5 A	2.5 A
Environmental:	Operating temperature	0-70ºC	
	Operating humidity	5-95%RH	
Interface Options:	–Standard: Parallel		
	–Serial: ccTalk		

excel™ hopper

Nearly 25 years of designing and manufacturing hoppers has resulted in this new product. Understanding the needs of operators and manufacturers has led to this extremely durable and world's most service friendly hopper.

Features:

Planetary gearbox system provides the following advantages:

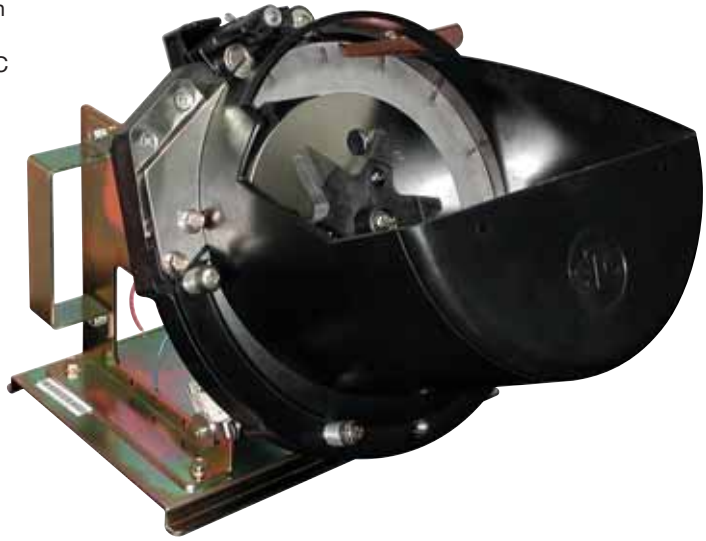
- Maximum torque with minimal power consumption
  24V - 31 RMP load 6kg N.m 12V - 31 RMP load 5kg N.m
  24V - 24 RMP load 12kg N.m 12V - 24 RPM load 11kg N.m
- Standard supplied in 24VDC optional available in 12VDC
  Power consumption:

Unloaded	Loaded	Stall autoreverse
24VDC 0.25 Amp	0.50 Amp	1.5 Amp
12VDC 0.30 Amp	0.70 Amp	1.6 Amp

- Silent operation
- Unique bayonet motor connection for easy motor replacement

Extra features:

- Indirect optic switch read out protected by dust and light cover
- Easy accessible coin exit
- Steel bearings offer stable disc rotation
- Customised frame and cup specifications possible
- All parts including pin and shelf wheels are 100% compatible with older generations STC hoppers
- Easy to integrate for manufacturers who use older generation STC Casino Hoppers
- Optionally available with wiring harness and AMP plug
- Competitively priced!
- Modern look
- Payout speed 450 coins per minute (<31mm coins) or with bigger size coins 275 coins per minute (>31.1mm coins)
- RoHS Compliant



SUZO HAPP

Part Number	Bowl Size	Configuration	Voltage	US Coins	Mexican Coins	Canadian Coins
16-6028-8	Wide	Pulse/Serial	12VDC	5 Cents	1 Peso	5 cents
16-6028-5	Wide	Pulse/Serial	12VDC	25 Cents	10 Peso	25 cents
16-6028-12	Wide	Pulse/Serial	12VDC	$1 SBA	5 Peso	$1

CUBE HOPPER MKII®

The Most Reliable Small Hopper In The Market Today

The Cube Hopper MKII has been designed according to the highest standards for reliability and security in the Gaming, Vending and Amusement Industries. This hopper is constructed of extremely durable, wear-resistant plastic. As a single denomination hopper, it features high speed operation and expandable hopper capacity. The Cube Hopper MKII has quickly built it's reputation as the most successful hopper on the market today. It is used extensively throughout the world.

Standard Features:

- Standard 450 coins capacity. 0.94" D (ø24mm) Maximum 2 extensions up to 1.01" (25.6 mm)
- Quick pay out speed: 400 coins per minute
- Coin size range 0.71" – 1.22" (18 - 31mm) Thickness 0.06" / 0.126" (1.5 / 3.2mm)
- Coin cup extensions available (optional) which will increase capacity up to an average of 400 coins per extension 0.94" D (ø24mm)
- Supplied complete with mounting bracket
- Easily and quickly converts into different coinage
- Low level cup sensing integrated into connector
- Planetary gearbox system provides maximum torque with minimal power consumption (350 mA to 850 mA with a 2 Amp peak on 24VDC)
- Standard operating voltages 12 or 24VDC
- Duty cycle 2:1
- CE approved
- Hopper is protected by auto reverse anti-jam
- Integrated optical read-out sensor under platform (Sensor cannot get dirty or be approached with any light source)
- Competitively priced!
- Rohs compliant

ccTalk Cube Hopper MKII

The ccTalk Cube Hopper MKII offers all standard features and an advanced interface with secured-encrypted payout commands and continuous opto-sensor check. Power-supply range is 12 – 24 VDC. Electronic payout speed control at 24 VDC.

CUBE HOPPER MKII SPECIFICATIONS	
Operating Voltage	12V DC ±10% or 24V DC -25% +10%
Minimal operating Voltage	Pin 8 : 10.8V DC - pin 7 : 18V DC
Temperature min	0ºC
Temperature max	50ºC
Duty Cycle	2:1
Humidity min	20%
Humidity max	75%
Coins per second	±7
Payout position	4 sides
Max current not loaded	400mA
Max current loaded	850mA
Max current	2A (Jam)
Connector	9-way connector + pins Type: Molex 22-01-2095 + 08-50-0032
Payout signal	Open collector-active low 25mA-35V
Coin size	0.71"-1.22" (18.00mm - 31.00mm)
Coin thickness	0.06"-0.13" (1.50mm - 3.20mm)
Min. time between coins	100mS
Min. time obstructs optics	30mS

Cube Hopper MKII	ccTalk Cube Hopper	Country of Origin	Payout Denomination	Coin Disc	Insert Plate
10-1700-20	**10-2000-20**	USA	1 Cent, 5 Cent	10-0240-2	10-0238
10-1700-41	**10-2000-41**	USA	25 Cent	10-0240-4	10-0238-2
10-1700-83	**10-2000-83**	USA	SBA New & Old	10-0240-8	10-0238-3
10-1700-20	**10-2000-20**	Canada	1 Cent, 5 Cent	10-0240-2	10-0238
10-1700-40	**10-2000-40**	Canada	25 Cent	10-0240-4	10-0238-1
10-1700-83	**10-2000-83**	Canada	50 Cent, 1 Dollar	10-0240-8	10-0238-3
10-1700-84	**10-2000-84**	Canada	2 Dollar	10-0240-8	10-0238-4
10-1700-20	**10-2000-20**	Mexico	1 Peso	10-0240-2	10-0238
10-1700-41	**10-2000-41**	Mexico	5 Peso	10-0240-4	10-0238-2
10-1700-94	**10-2000-94**	Mexico	10 Peso	10-0240-9	10-0238-4
10-1700-41	**10-2000-41**	-	0.984 - Token	10-0240-4	10-0238-2
10-1700-40	**10-2000-40**	-	0.900, 0.880 - Token	10-0240-4	10-0238-1
10-1700-20	**10-2000-20**	-	0.800 - Token	10-0240-2	10-0238

CUBE HOPPER EXTENSION

Enlarges the capacity of the Cube Hopper with 1 or 2 extensions

Features:

- Capacity enlargement with 1 extension is from 450 to 900 coins, 0.94" D (ø24mm)
- Capacity enlargement with 2 extensions is from 450 to 1200 coins, 0.94" D (ø24mm)
- Only possible with coins maximum 1.01" D (25.6 mm)
- Easy snap-in fitting

Part Number	Description
10-0200	Cube Hopper Extension

DRIVER INTERFACE CABLE

- This interface solves the problem when the switching transistor in the host machine is not powerful enough to drive the CUBE HOPPER. It also fixes the problem of coins remaining in the coin exit
- This occasionally happens if the "STOP" command is received too early. By checking the coin-out sensor, the interface will turn the motor until the coin blocking the optic sensor is ejected and cleared

Part Number	Description
10-0150-1	Driver Interface Cable

COIN INSERT PLATE

- Replacement plate for the Cube Hopper MKII
- See the chart on the previous page for the plate that corresponds with the denomination of your Cube Hopper MKII

Coin Insert Plate	Country of Origin	Denomination
10-0238	USA	1 Cent, 5 Cent
10-0238-2	USA	25 Cent
10-0238-3	USA	SBA New & Old
10-0238	Canada	1 Cent, 5 Cent
10-0238-1	Canada	25 Cent
10-0238-3	Canada	50 Cent, 1 Dollar
10-0238-4	Canada	2 Dollar
10-0238	Mexico	1 Peso
10-0238-2	Mexico	5 Pesos
10-0238-4	Mexico	10 Pesos
10-0238-2	-	0.984 - Token
10-0238-1	-	0.900, 0.800 - Token
10-0238	-	0.800 - Token

PAYOUT DISC

- Replacement disc for the Cube Hopper MKII
- See the chart on the previous page for the disc that corresponds with the denomination of your Cube Hopper MKII

Coin Insert Plate	Country of Origin	Denomination
10-0240-2	USA	1 Cent, 5 Cent
10-0240-4	USA	25 Cent
10-0240-8	USA	SBA New & Old
10-0240-2	Canada	1 Cent, 5 Cent
10-0240-4	Canada	25 Cent
10-0240-8	Canada	50 Cent, 1 Dollar
10-0240-8	Canada	2 Dollar
10-0240-2	Mexico	1 Peso
10-0240-4	Mexico	5 Pesos
10-0240-9	Mexico	10 Pesos
10-0240-4	-	0.984 - Token
10-0240-4	-	0.900, 0.800 - Token
10-0240-2	-	0.800 - Token

CASHCAN MSB-30 BANK NOTE COUNTER

- Variable speed preset and variable batch dual display
- Super light weight
- Three counting speeds
- Built-in self-diagnosis
- Note thickness adjustment
- Auto Density adjustment
- Dual display, Error display
- Selection of preset or variable counting
- Counting speed: 1,500/1,200/900 notes per minute
- Available with magnetic counterfeit detection
- Hopper capacity: 300 notes; Stacker capacity: 200 notes
- Note size range: 500mm x 100mm to 100mm x 190mm
- Dimensions: 10.23" W x 9.25" H x 8.74" D
- Weight: 10.47 lbs.

Part Number	Description
80-1112-20	Cashscan MSB-30 w/ Counterfeit Detect

MAG II CURRENCY COUNTER

- Outstanding performance at an affordable price
- Compact, durable and easily portable
- Counts up to 1,200 notes per min
- Variable batch counting
- Automatic start
- Hopper capacity 300 notes, stacker capacity 200 notes
- Dimensions 11"W x 9.45"D x 7.68"H
- Weight 12.4 lbs.

MAGNER

MAG II 20

Part Number	Description
80-1207-00	Magner Currency Counter - Model 20

ORANGE WOOD STICK FOR CLEANING

- Used in cleaning slot machine knives, coin comparitors and in cleaning room for board soldering
- Helps remove coins out of card readers and clearing all coin jams
- Safe material for use in ESD sensitive areas; will not melt or deform at high temperatures
- Durable, yet soft enough to not mar delicate components and surfaces
- Comes 100 per pack

Part Number	Description
92-2037-00	Orange Wood Stick, 100/pack

CURRENCY BANDS

- Great for locations that count large amounts of dollars
- Pressure sensitive adhesive
- Minimum order 1,000
- 20,000 per case

PAP-R Products

Part Number	Description
27-1021-00	Currency Bands – $50 Imprint
27-1022-00	Currency Bands – $100 Imprint
27-1023-00	Currency Bands – $500 Imprint

COIN WRAPPERS

- Top quality weather proof paper
- Tubular wrapper open with ease
- For that extra touch, imprint your name on the wrappers. No question whose money it is.
- Minimum order one box of 1,000

PAP-R Products

Part Number	Coin	Capacity	Case Qty
27-1155-00	1¢	$ .50	20k
27-1231-00	5¢	$1.00	30k
27-1046-00	5¢	$2.00	20k
27-1045-00	10¢	$5.00	20k
27-1230-00	25¢	$5.00	24k
27-1020-00	25¢	$10.00	16k
27-1019-XXXX Imprinted	25¢	$10.00	16k
27-1229-00	50¢	$10.00	12k
27-1351-00	$1.00	$25.00	20k

COMPARITOR UNIVERSAL TEST STATION II

- A must for every casino!
- Used to test, adjust and troubleshoot all comparitors
- Switches can be toggled to simulate a machine's inhibit control lines, display output signals such as sense, credit and tilt, that can be viewed on the two numerical displays and also on a dual-color LED

COIN MECHANISMS INC.

- Includes two 3-digit 7-segment counter displays which measure output signals in milliseconds and seconds
- Each Test Station includes: Your choice of 1 - Comparitor Interface Wire Harness (call for list of available harnesses) and 1 set of Test Leads, additional harnesses can be purchased separately
- Optional VHS training video available
- All output signals can be viewed individually or simultaneously
- Signals can be measured accurately up to 15 minutes
- One display doubles as a coin counter whereby false crediting or numerous crediting can be detected
- Can be used with 3 different voltages: 12 vdc, 24 vdc, 24 vac

Part Number	Ref. No.	Description
35-0750-01	00660011	Comparitor Universal Test Station

PLASTIC COIN DEPOSIT BAG

- Plastic bag for loose coin bank deposits
- Super tough 6.5 mils clear film
- Tamper evident adhesive closure
- Dual sequential numbering with barcode tear off receipt for easy tracking
- Two color stock imprint to record content information (a Federal Reserve requirement)
- Easy to use directions with illustrations
- Handy die-cut handle for easy transport
- Made with non-slip film to prevent slipping when stacked
- Available in 2 sizes: 10” X 15” or 12” X 20”
- Sold by the case only, packed 100 per case
- Federal Reserve requirements vary by location; verify this bag meets requirements in your area

Part Number	Description
27-0113-00	10”x 15” Plastic Coin Deposit Bag, Capacity: 500 quarters
27-0112-00	12”x 20” Plastic Coin Deposit Bag, Capacity: 1,000 quarters

BANK DEPOSIT BAGS

- Plastic bags primarily used for cash and checks
- Tamper evident adhesive closure
- Sequentially numbered with tear off receipt for easy tracking
- Two color imprint to record content information
- Strong 3 mil clear film
- Available in 2 sizes: 9” X 12” or 12” X 15.5”
- Packed 500 per case
- Sold by the case only

Part Number	Description
27-0074-00	9” x 12” Bank Deposit Bag
27-0075-00	12” x 15.5” Bank Deposit Bag

COLLECTION MONEY BAG

- Convenient 11"x 8" size
- 10 oz. Army Duck material double stitched
- Color: Red
- High quality brass zipper on long side of bag

Part Number	Description
49-0648-00	Collection Money Bag

COIN BAG ENVIRO SEALS

- Seals money bag to prevent tampering with your money
- Applied with any standard sealing tool
- Minimum order 50
- 250 per case
- Gray serrated cap secures the neck of the bag
- Environmentally safe – replaces lead seals

Part Number	Description
27-1057-00	Coin Bag Enviro Seals

RECTANGULAR FANNY PACK

- Rectangular shape makes it great for currency
- Four large zippered pockets plus two small zippered side pockets
- Side pockets are great for coins
- Durable 900 denier polyester with PVC backed water resistant fabric
- Belt adjusts up to 55” waist
- Size: 9” x 5.25” x 1.25”
- 5-year manufacturer limited warranty
- Color: Black

Part Number	Description
95-2096-10	Rectangular Fanny Pack

NYLON POUCH WALLET

- Great for handling money or for service technicians
- Ideal for casino jackpot slips, money, rolls of coins, small tools, etc.
- Constructed of heavy-duty black imperial nylon
- Two extra large 4” belt loops on back for high security
- Five interior pockets for separation of items
- “Quick Close” with hook and loop system
- High security closure with full zipper
- Size: 8” wide x 4” high; depth 2.5” to 3.5”

Part Number	Description
80-1186-00	Nylon Pouch Wallet

DELUXE NYLON CURRENCY POUCH

- Ideal for casino jackpot slips, bills, rolls of coins, small tools, etc.
- Constructed of heavy-duty black imperial nylon
- Extra large 3-1/2” belt loop
- Six interior divider pockets ideal for separating bills
- Front and middle zipper storage compartments
- Plastic front see-through pocket
- Size: 4” D x 10” W x 5” H

Part Number	Description
80-1186-20	Deluxe Nylon Currency Pouch

CURRENCY WALLETS

- Five pockets for different currency denominations
- 1" wide belt loops on back
- Heavy-duty 3/4" grommet for chain
- Oversize flap closes securely with hook and loop system
- Choose from two types of material

Part Number	Description
95-1148-00	Black Neoprene Coated Nylon
95-1149-00	Black Imperial Nylon

COIN COMPARITORS

- No more coin jams - save time and money with less down time
- Patented magnetic induction system provides an accept / reject decision within milliseconds
- No special power supplies required
- Easily change formats - just put the coin you want the Coin Comparitor to recognize into the sample holder and perhaps make a minor sensitivity adjustment
- Anything that does not match the sample coin is automatically rejected

COIN MECHANISMS INC.

Features for specific coin comparitor models:

Model CC-16

- Designed for coin diameters of .700" (17.8mm) thru 1.470" (40mm)
- Straight drop coin path
- Offered in voltages ranging from 12 volts DC to 48 volts AC
- Optional inhibit feature on 12 volt DC models only
- Coin feed performance rated at 7 coins-per-second

Model CC-33 /33, CC-36/37

- CC-33 is designed for coins measuring 1.205" thru 1.575"
- CC-37 is designed for coins measuring 1.575" thru 1.950"
- Coin feed performance rated at 6 coins-per-second
- Reverse coin path logic
- Offered in voltages ranging from 12 volts DC to 48 volts AC
- CC-32 and CC-36 are 13 volt DC inhibit only models used in newer IGT machines

Model MC 16, 40, 62 (old CC-46)

- On-board quad optics for coin path security
- Fast feed through of coins and good coin acceptance
- Microcontroller for coin analysis and I/O functions
- Fixed output credit buffering
- Bi-color LED status indicator
- High or low logic inhibit available via personality jumpers
- Quick-cover and housing snap in place for easy removal and access to electronics
- Operates on either 12V DC only or 24V AC or DC

ACCEPTOR MOUNTING CLIP

- Made of 6/6 nylon
- Natural color

Part Number	Description
42-1070-00	Acceptor Mounting Clip

COIN COMPARITOR SELECTION GUIDE FOR GAMING MACHINES

Part Number	Ref. No.	Coinage	Description
FOR ARISTOCRAT MACHINES			
35-0473-00	66460282	$1.00	MC-62 12V
FOR ATRONIC MACHINES			
42-1181-00	66160059	$.25	CC-16 12V
FOR BALLY MACHINES			
35-0028-00	66460065	$.05 to $.25	MC-62 12V
35-0018-00	66160023	$1.00	CC-16 24V
FOR IGT MACHINES			
35-0016-00	66160186	$.05/$.25	CC-16 24VAC
35-0016-13	66160177	$.05/$.25	CC-16 13V w/ Inhibit
35-0134-00	66330029	$1.00	CC-33 24V
35-0239-00	66160179	$1.00	CC-16 13V w/ Inhibit
35-0401-00	66320004	$1.00	CC-32 13V w/ Inhibit
35-0134-00	66330035	$1.00	CC-33 24VAC
35-0020-00	66360001	$5.00 & Up	CC-36 13V w/ inhibit
35-0136-00	66370011	$5.00 & Up	CC-37 24V
FOR SILICON GAMING MACHINES			
35-0018-20	66160135	$1.00	CC-16 12V
FOR VLC/POWERHOUSE MACHINES			
42-1181-00	66160058	$.25	CC-16 12V
35-0018-20	66160115	$1.00	CC-16 12V
FOR WMS GAMING MACHINES			
35-0463-00	66460200	$.05	MC-40 12V w/Inhibit
35-0450-00	66460202	$1.00	MC-40 12V w/Inhibit

COIN COMPARITOR HARNESSES

COIN MECHANISMS INC.

Part Number	Ref. No.	Description
35-0230-00	09280044	Loop for CC-16 for IGT
35-0233-00	-	CC-16 for Bally

COIN COMPARITOR CIRCUIT BOARDS

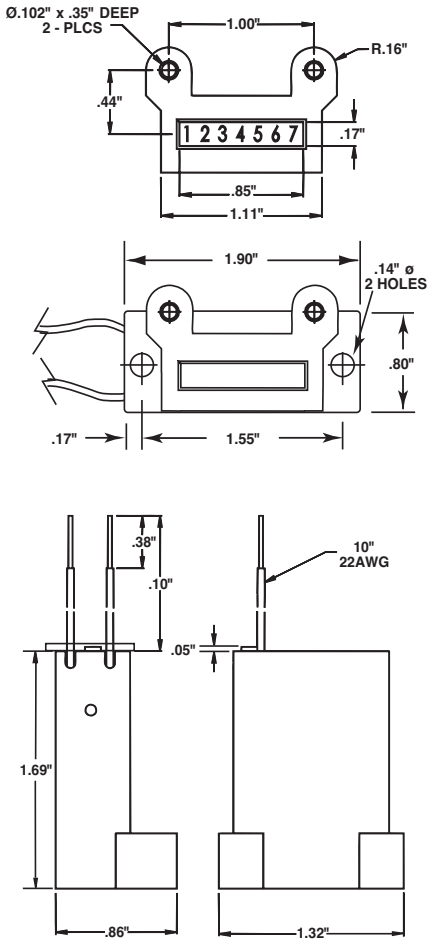
COIN MECHANISMS INC.

Part Number	Ref. No.	Description
35-0102-00	09270144	Control Board for 66160056
35-0039-00	09270145	CC-16D 12 VDC with Inhibit
35-0034-00	09270126	CC-16D 24 VAC
35-0058-00	09270189	CC-32/CC-36 13 VDC with Inhibit
35-0217-00	09270250	CC-33/CC-37 24 VAC
35-0350-00	09270128	CC-40

SUZO-HAPP 7-DIGIT METER WITH BRACKET

SUZO HAPP

MOUNTING DIMENSIIONS



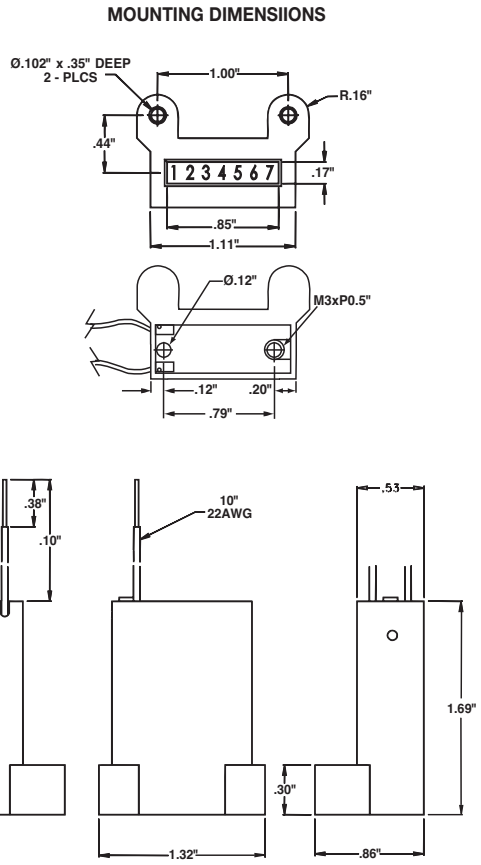
Part Number	Description
42-0759-07	6vdc 7-digit Meter w/Bracket
42-0754-07	12vdc 7-digit Meter w/Bracket
42-0408-00	Bracket for Suzo-Happ Meter
43-1061-00	Screw M3 x 6

SUZO-HAPP 7-DIGIT METER

SUZO HAPP

- 7 digit non-resetable
- Low cost, small size
- Internal diode
- Flying leads
- Service life: 1,000,000 cycles
- Magnifying window
- Low power consumption: 1.3 watt
- High speed: 10 counts per second
- High quality – each meter tested at max speed for 5,000 counts before shipment
- Without mounting bracket

MOUNTING DIMENSIIONS



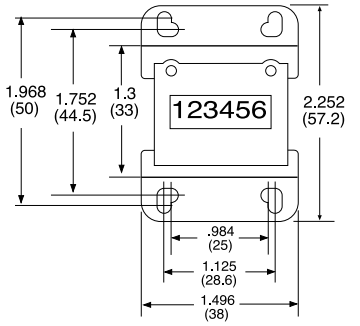
Part Number	Description
42-0756-07	6vdc 7-digit Meter (also rated 5vdc)
42-0750-07	12vdc 7-digit Meter
42-1178-07	24vdc 7-digit Meter

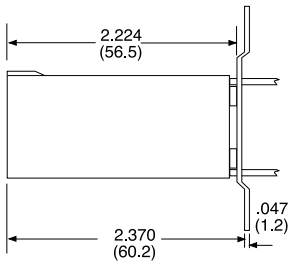
KESSLER ELLIS 6-DIGIT METER

- Electric, non-resettable counter
- 6 digit, counts to 999,999 then repeats
- 600 counts per minute
- With mounting bracket
- With or without diode
- 10" wire leads

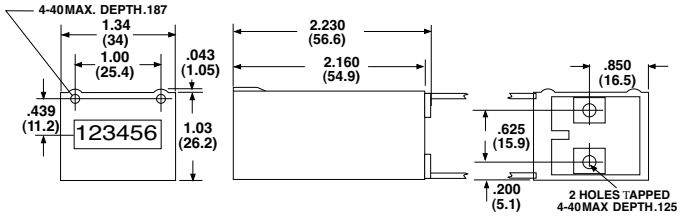
KEP

6-DIGIT METER WITH BRACKET DIMENSIONS





6-DIGIT METER WITHOUT BRACKET DIMENSIONS



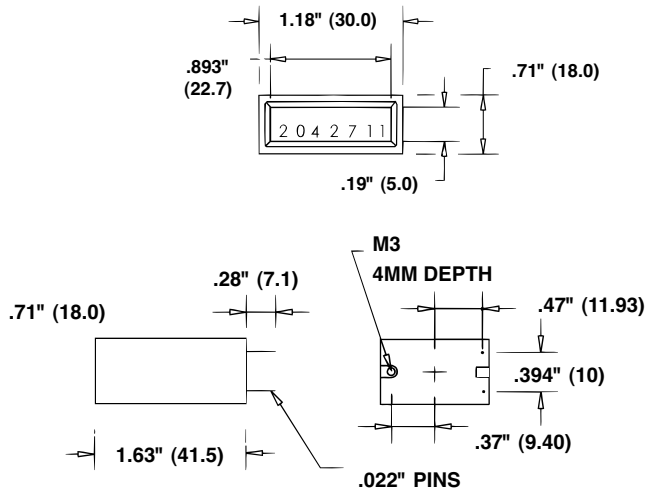
Part Number	Voltage	Bracket	Diode
42-1168-00	4.5/6 DC	Yes	No
42-2093-00	4.5/6 DC	Yes	Yes
42-2093-01	4.5/6 DC	No	Yes
42-0614-00	12 DC	Yes	Yes
42-0092-00	12 DC	Yes	No
42-6914-00	12 DC	No	Yes
42-1317-00	24 DC	Yes	No
42-3140-00	24 DC	Yes	No
42-1167-00	120 AC	Yes	No
(72" Leads)			

KESSLER ELLIS PC BOARD MOUNT 7-DIGIT METER

- Ideal for gaming applications
- 7-digit non-resettable counter
- High speed: 25 counts per second
- PC Board Mount
- Small size
- .022" Pins
- Available in various voltages

7-DIGIT METER DIMENSIONS

KEP



Part Number	Description
42-0754-12V	12vdc 7-digit PC Board Mount Meter
42-0754-24V	24vdc 7-Digit PC Board Mount Meter

SEC STARPOINT ELECTRONIC COUNTER

New

STARPOINT

- A single electronic counter designed to replace traditional mechanical meters
- Provides enhanced security through a unique finger print code and secure software protocol
- The finger print code allows the machine to detect any meter changes as well as prohibit operation if the meter is not present
- Avoids reliability problems and service call-outs which may occur with mechanical counting devices
- Replaces up to 31 mechanical meters with individual Counters stored in EEPROM
- 7 digit Liquid Crystal Display for displaying contents of counters
- Text messages and counter selection controlled by host machine
- Clock Serial interface designed to work on existing meter ports

Part Number	Description
27-0800	SEC Starpoint Electronic Counter

Replacement Parts for Aristocrat Slot Machines

REBUILDING KIT FOR 15W ARISTOCRAT ELECTRONIC BALLAST

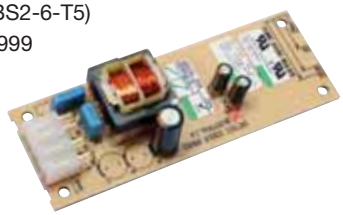
- Rebuild and SAVE!
- Includes capacitors, transistors and instructions

Part Number	Description
70-1585-00	Ballast Rebuild Kit Aristocrat Electronic 15 Watt
70-1858-00	Ballast Rebuild Kit Aristocrat Electronic 8 Watt
70-1761-00	Ballast Repair Kit Aristocrat 6 Watt

6W BALLAST FOR ARISTOCRAT

New

- 6w ballast for Aristocrat machines
- Setec EBS3-6-T5 (replaces EBS2-6-T5)
- Ref. No. 008056 replaces 006999



Part Number	Description
70-1757-00	6W Ballast for Aristocrat

15W BALLAST FOR ARISTOCRAT

New

- 15W ballast for Aristocrat machines
- Setec EBS3-15-T8 (replaces EBS2-15-T8)

Part Number	Description
432315	15W Ballast for Aristocrat

CPU COOLING FAN FOR ARISTOCRAT

New

- Cooling fan for Aristocrat Mark VI
- 3-wire connection
- Size: 40mm X 40mm X 10mm

Part Number	Description
80-0006-62	CPU Cooling Fan for Aristocrat

TRANSFORMER FOR ARISTOCRAT ELECTRONIC BALLAST

- Replace the transformer instead of buying the whole assembly
- For Aristocrat electronic ballast ref. no. 430959

Part Number	Description
70-1671-00	Transformer for Aristocrat 6 Watt Electronic Ballast
70-1671-15	Transformer for Aristocrat 15 Watt Electronic Ballast

LITHIUM 3V BATTERY FOR ARISTOCRAT

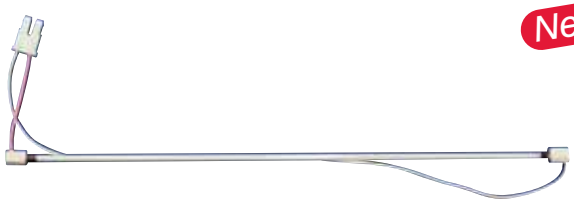
New

- Used on Aristocrat slot machine boards
- Industrial 3V battery, 1200MH
- Ref: BR-2/3A

Part Number	Description
27-0109-00	Lithium 3V Battery For Aristocrat

COLD CATHODE FOR ARISTOCRAT

New



- For Aristocrat Sentinel III player tracking system LCD display
- With wiring harness

Part Number	Description
91-6329-00	Cold Cathode for Aristocrat

COIN ENTRY BLANKING PLATE

New

- For Aristocrat machines
- Chrome finish

Part Number	Description
70-1569-00	Coin Entry Blanking Plate for Aristocrat Mark V & VI
70-1583-00	Coin Entry Blanking Plate for Aristocrat VI Upright

Replacement Parts for Aristocrat Slot Machines

COLD CATHODE LAMPS FOR ARISTOCRAT LCD

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness

Part Number	Description
91-6787-00	Cold Cathode for 15” Aristocrat LCD
91-6904-00	Cold Cathode for 17” Aristocrat LCD
91-7022-00	Cold Cathode for 19” Aristocrat LCD

MYLAR FOR ARISTOCRAT TOUCH SCREEN

New

- For touch screen on Aristocrat Sentinel III player tracking system LCD display
- Peel and stick backing

Part Number	Description
91-6556-00	Mylar for Aristocrat Touch Screen

LCD FOR ARISTOCRAT PLAYER TRACKING SYSTEM

New

- 6.2” LCD display for Aristocrat Sentinel III player tracking system
- With 4-wire touch screen

Part Number	Description
49-9317-00	LCD for Aristocrat Player Tracking System

TOUCH SCREEN FOR ARISTOCRAT PLAYER TRACKING

New

- For Aristocrat Sentinel III player tracking system LCD display
- 4-WIRE

Part Number	Description
91-6442-00	Touch Screen for Aristocrat Player Tracking

Replacement Parts for Asahi Seiko Hoppers

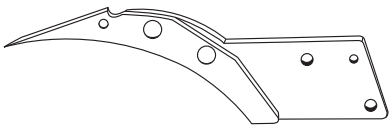
SHIM WASHER

- For Asahi Seiko hoppers
- M3X8X.5
- Ref. No. W3008FW05

Part Number	Description
70-0412-00	Shim Washer

COIN KNIVES

- $.05 and $.25 knife



Part Number	Ref. No.	Description
70-0374-00	DH7001M005025	$.05 Knife
70-0363-00	DH7001M025025	$.25 Knife

DOLLAR COIN KNIFE

- Ref. No. DH7001M10T725

Part Number	Description
70-0979-00	Dollar Coin Knife

ASAHI SEIKO COIN GUIDE

- For $.05 and $.25
- Ref. No. DH7001M025028

Part Number	Description
70-0567-00	Coin Guide

Replacement Parts for Atronic

COLD CATHODE LAMPS FOR ATRONIC LCD MONITORS

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness

Part Number	Description
91-7141-00	Cold Cathode for 15" Atronic LCD
91-7261-00	Cold Cathode for 17" Atronic LCD
91-7382-00	Cold Cathode for 19" Atronic LCD

BALLAST FOR ATRONIC E-MOTION TOPPERS

- 12 or 24 VDC
- UL Approved

Part Number	Description
22-0139	24V Ballast for Atronic e-motion Toppers
22-0138	12V Ballast for Atronic e-motion Toppers

Replacement Parts for Bally Slot Machines

CDS SENTINEL III BRACKET FOR BALLY S6000

New

- CDS Sentinel III player tracking bracket for Bally S6000 upright
- Bally ref. no. 111783

Part Number	Description
70-2557-00	CDS Sentinel III Bracket For Bally S6000

COMPACT FLUORESCENT FOR BALLY MONTE CARLO

- 24W compact fluorescent
- Used behind belly glass on Bally Monte Carlo

Part Number	Description
91-0771-00	Compact Fluorescent for Bally Monte Carlo

COLD CATHODE LAMPS FOR BALLY LCD MONITORS

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness

Part Number	Description
91-7627-00	Cold Cathode for 15" Bally LCD
91-1712-00	Cold Cathode for 19" Bally LCD
91-7751-00	Cold Cathode for 20" Bally LCD

CDS SENTINEL III BRACKET FOR BALLY CINEVISION

New

- Fits Bally Cinevision slant top games
- Bally ref. no. 201878-00097

Part Number	Description
70-2629-00	CDS Sentinel III bracket For Bally Cinivision

CDS SENTINEL III BRACKET FOR BALLY

New

- Player tracking bracket for CDS Sentinel III fits Bally M9000 and S9000 uprights
- Bally ref. no. 201881-00097

Part Number	Description
70-2486-00	CDS Sentinel III Bracket For Bally

NYLON KNIFE

- For small denominations

Part Number	Description
70-0910-00	Nylon Knife

POWER SUPPLY BOARD

- For Bally Pro Series slots and Bally 5000, V7000, V7200 Series
- Just replace the board and save $$
- 63.5 watts

Part Number	Description
80-1178-00	Power Supply Board

Replacement Parts for Bally Slot Machines

LCD PANEL AND TOUCH SCREEN FOR BALLY I-VIEW

New

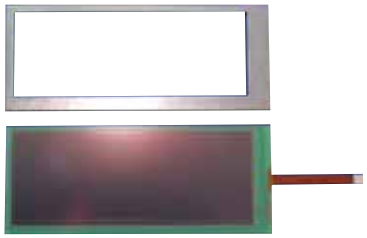
- 6.2" LCD for Bally I-View player tracking system with 5-wire touch screen
- Direct replacement for 1st and 2nd generation I-Views
- Will replace either the IDW or Hitachi LCD

Part Number	Description
49-13042-00	LCD Panel and Touch Screen for Bally I-View

TOUCH SCREEN FOR BALLY I-VIEW PLAYER TRACKING SYSTEM

New

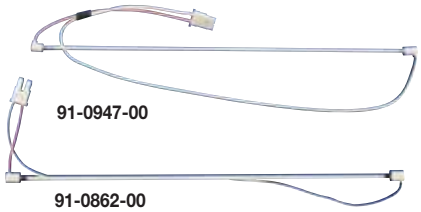
- Replacement 5-wire touch screen with metal housing
- For use with 1st generation (IDW) systems



Part Number	Description
49-0631-00	Touch Screen for Bally I-View Player Tracking System

COLD CATHODE FOR BALLY I-VIEW PLAYER TRACKING SYSTEM

New



- For use on 1st generation IDW or 2nd generation Hitachi 6.2' LCD panel
- Rated at 70,000 hours

Part Number	Description
91-0947-00	For IDW LCD Panel
91-0862-00	For Hitachi LCD Panel

MYLAR OVERLAY FOR BALLY IVIEW

New

- Mylar overlay for Bally Iview player tracking system
- For touch screen on 6.2" Hitachi LCD TX16D11VM2CCA

Part Number	Description
91-7504-00	Mylar Overlay for Bally IView

Replacement Parts for Casino Data Systems

REPLACEMENT 2X8 SWITCH KEYPAD FOR CDS PLAYER TRACKING SYSTEM

- 16-button 24v @ 10MA
- 3 million cycles per key
- 9-pin 0.100" headers
- Compatible with MOS, TTL and DTL
- RoHS compliant

Part Number	Description
64-0053-00-R	2X8 Switch Keypad for CDS Player Tracking System

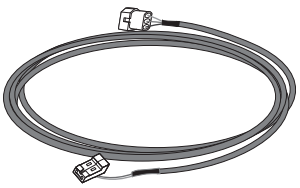
REPLACEMENT DISPLAY FOR CDS PLAYER TRACKING SYSTEM

- 2 X 16 matrix
- Display color blue
- Ref. No. 01-70015

Part Number	Description
70-1137-00	Display for CDS Player Tracking System

HARNESS FOR CDS PLAYER TRACKING SYSTEM

- Used in player tracking unit
- Ref. No. 07-20027



Part Number	Description
70-0679-00	Harness for CDS Player Tracking System

CDS PLAYER TRACKING INTERFACE CABLE TO IGT

- Main communication cable for replacement in sentinel systems
- Standard 64" L cable
- Two MTA connectors on one end, 5 pin Molex "c grid" on the other
- Ref. No. 07-20257

Part Number	Description
70-1178-00	CDS Interface Cable, IGT

SUZO-HAPP Replacement Illuminated Button Sets for IGT Slot Machines

- Made with the highest quality materials
- Designed to resist spills and sticking
- Designed for high reliability and long life, tested to 10 million+ cycles
- Unique design with separable lamp/switch holder allows easy lamp changing while holding switch very securely

REPLACEMENT BUTTON SET FOR IGT PE PLUS SLANT TOP SLOT MACHINES

New

- All buttons have clear caps, white legends and black print, except the "Change" button, which has a red legend and white print
- Fitted with #86 6.3 volt lamp / 6v LED / 12v LED
- Set includes: 5 Rectangular "Hold/Cancel" buttons
  1 Rectangular "Cash Out" button
  1 Rectangular "Bet One Credit" button
  1 Rectangular "Play 5 Credits" button
  1 Rectangular "Deal/Draw" button
  1 Small Square "Change" button

Complete Individual Replacement Buttons:	
Part Number	**Description**
77-2000-51800006	"Hold/Cancel"
77-2000-518605	"Cash Out"
77-2000-518HP610	"Bet One Credit"
77-2000-518220	'Play 5 Credits"
77-2000-518B56	"Deal/Draw"
77-2SP2-408333	"Change"

Part Number	Description
77-KIT-100	Complete Button Set for IGT PE Plus Slant Top Slot Machine with 6v Lamp
77-KIT-106LD	Complete Button Set for IGT PE Plus Slant Top Slot Machine with 6v LED
77-KIT-112LD	Complete Button Set for IGT PE Plus Slant Top Slot Machine with 12v LED

REPLACEMENT BUTTON SET FOR IGT PE PLUS UPRIGHT SLOT MACHINES

New

- Small square buttons with clear caps
- All buttons have white legends and black print, except the "Change" button, which has a red legend and white print
- Fitted with #86 6.3 volt lamp / 6v LED / 12v LED
- Set includes: 5 "Hold/Cancel" buttons
  1 "Cash Out" button
  1 "Change" button
  1 "Max Bet" button
  1 "Deal/Draw" button
  1 "Bet One" button

Complete Individual Replacement Buttons:	
Part Number	**Description**
77-2SP0-418311	"Hold/Cancel"
77-2SP2-418332	"Cash Out"
77-2SP2-408333	"Change"
77-2SP0-418330	"Max Bet"
77-2SP0-418248	"Deal/Draw"
77-2SP0-418331	"Bet One"

Part Number	Description
77-KIT-200	Complete Button Set for IGT PE Plus Upright Slot Machine with 6v Lamp
77-KIT-200L	Complete Button Set for IGT PE Plus Upright Slot Machine with 6v LED
77-KIT-212LD	Complete Button Set for IGT PE Plus Upright Slot Machine with 12v LED

REPLACEMENT BUTTON SET FOR IGT S PLUS UPRIGHT SLOT MACHINES

New

- Large and small square buttons with clear caps, white legends and black print
- Fitted with #555 6.3 volt lamp / 6v LED / 12v LED
- Fits IGT S Plus Machines 1995 to present
- Set includes: 1 Large Square "Spin Reels" button
  1 Large Square"Play Max Credits" button
  1 Small Square "Bet One Credit" button
  1 Small Square "Change" button
  1 Small Square "Cash/Credit" button

Complete Individual Replacement Buttons:	
Part Number	**Description**
75-0006-318HP73	"Spin Reels"
75-0006-318HP82	"Play Max Credits"
75-0006-418HP593	"Bet One Credit"
75-0006-418HP609	"Change"
75-0006-4181667	"Cash/Credit"

Part Number	Description
75-KIT-300	Complete Button Set for IGT S Plus Upright Slot Machine with 6v Lamp
75-KIT-306LD	Complete Button Set for IGT S Plus Upright Slot Machine with 6v LED
75-KIT-312LD	Complete Button Set for IGT S Plus Upright Slot Machine with 12v LED

IGT Replacement Button Sets

GAME KING BAR TOP REPLACEMENT SETS

New

- Rectangular and small square buttons with clear caps
- All buttons have white legends and black print except the "Change" button which has a red legend and white print
- Fitted with #73, 14v lamp / 6v LED / 12v LED
- Set includes:
  1 "Change" button
  1 "Cash Out" button
  1 "Bet One Credit" button
  1 "Max Bet" button
  1 "Deal/Draw" button
  5 "Hold/Cancel" buttons

Complete Individual Replacement Buttons:	
Part Number	**Description**
77-2012-408333	"Change"
77-2012-518110	"Cash Out"
77-2012-518191	"Bet One Credit"
77-2012-518219	"Max Bet"
77-2012-518107	"Deal/Draw"
77-2012-418311	"Hold/Cancel"

Part Number	Description
77-KIT-401	Complete Button Set for IGT Game King Bar Top Machine with 14v Lamp
77-KIT-406LD	Complete Button Set for IGT Game King Bar Top Machine with 6v LED
77-KIT-402	Complete Button Set for IGT Game King Bar Top Machine with 12v LED

GAME KING UPRIGHT REPLACEMENT SETS

New

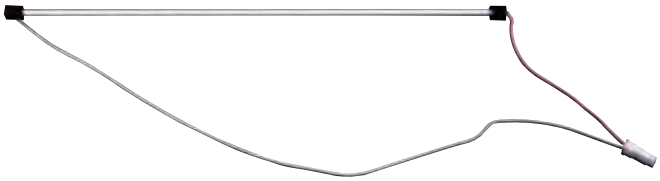
- Small square buttons with clear caps
- All buttons have white legends and black print except the "Change" button which has a red legend and white print
- Fitted with #73, 14v lamp / 6v LED / 12v LED
- Set includes:
  1 "Change" button
  1 "Cash Out" button
  1 "Bet One" button
  1 "Max Bet" button
  1 "Deal/Draw" button
  5 "Hold/Cancel" button

Complete Individual Replacement Buttons:	
Part Number	**Description**
77-20SP-408333	"Change"
77-2SP2-418332	"Cash Out"
77-2SP2-418331	"Bet One"
77-2SP2-418330	"Max Bet"
77-2SP2-418248	"Deal/Draw"
77-2SP2-418311	"Hold/Cancel"

Part Number	Description
77-KIT-700	Complete Button Set for IGT Game King Upright Machine with 14v Lamp
77-KIT-706LD	Complete Button Set for IGT Game King Upright Machine with 6v LED
77-KIT-700L	Complete Button Set for IGT Game King Upright Machine with 12v LED

Replacement Parts for IGT Slot Machines

COLD CATHODE FOR IGT NEXGEN PLAYER TRACKING SYSTEM



- For use with Hitachi 6.2” LCD panel
- Rated at 70,000 hours
- With or without wiring harness

Part Number	Description
91-1056-00	Cold Cathode with Wiring Harness

COLD CATHODE LAMP FOR IGT NEXGEN PLAYER TRACKING

New

- Raw cold cathode lamp without any wire harness attached
- For Hitachi 6.2” LCD panel SX16H005-AZA

Part Number	Description
91-8516-00	Cold Cathode Lamp for IGT NexGen Player Tracking

COLD CATHODE LAMPS FOR IGT LCD MONITORS

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness

Part Number	Description
91-7876-00	Cold Cathode for 10” IGT LCD
91-8002-00	Cold Cathode for 15” IGT LCD
91-8129-00	Cold Cathode for 17” IGT LCD
91-8257-00	Cold Cathode for 19” IGT LCD

CDS PLAYER TRACKING INTERFACE CABLE TO IGT

- Main communication cable for replacement in sentinel systems
- Standard 64” L cable
- Two MTA connectors on one end, 5 pin Molex “c grid” on the other
- Ref. No. 07-20257

Part Number	Description
70-1178-00	CDS Interface Cable, IGT

LCD PANEL WITH TOUCHSCREEN FOR IGT NEXGEN PLAYER TRACKING SYSTEM

- Tovis LCD panel with touch screen for IGT NexGen Player Tracking System using Hitachi 6.2” panel TX16D11VM 2CAA

Part Number	Description
91-1060-00	Tovis LCD Panel with Touch Screen for IGT NexGen Player Tracking System

MYLAR OVERLAY FOR IGT NEXGEN PLAYER TRACKING SYSTEM

- Mylar overlay with copper tape for grounding for IGT NexGen Player Tracking System that uses the Hitachi 6.2” LCD panel TX16D11VM2CAA.

Part Number	Description
91-1059-00	Mylar Overlay for IGT NexGen Player Tracking System

TOUCHSCREEN FOR IGT NEXGEN PLAYER TRACKING SYSTEM

- Replacement 4-wire touch screen for IGT NexGen player tracking system that uses the Hitachi 6.2” LCD panel TX16D11VM2CAA.
- Also used by Aristocrat, Konami & Multimedia Gaming

Part Number	Description
91-1058-00	Touch Screen for IGT NexGen Player Tracking System

MYLAR OVERLAY FOR IGT PLAYER TRACKING SYSTEM

New

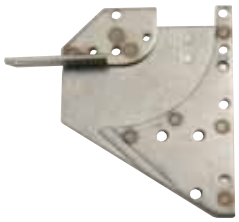
- Mylar overlay IGT first generation player tracking system
- Protects touch screen on 6.2” Hitachi LCD SX16H005-AZA

Part Number	Description
91-8386-00	Mylar Overlay for IGT Player Tracking

Replacement Parts for IGT Slot Machines

QUARTER ESCALATOR BRACKET

- Ref. No. 655-932-00



Part Number	Description
70-0916-00	Quarter Escalator Bracket

3-STAR AGITATOR

- With metal bushing

Part Number	Description
70-0917-00	3-Star Agitator

COIN-IN BASE WITHOUT REJECT

- For IGT machines
- For small denomination
- Color: Chrome
- Ref. No. 633 049 01

Part Number	Description
70-0500-00	Replacement Coin-In Base Without Reject

COIN ENTRY HEAD

- Replacement for IGT machines with small denomination
- Color: Chrome
- Ref. No. 599 234 12

Part Number	Description
70-0508-00	Coin Entry Head

DEFLECTOR

- For IGT hoppers
- Ref. No. 574 036 00

Part Number	Description
70-0607-00	Replacement Deflector

DOLLAR KNIFE

- Ref. No. 585 050 00

Part Number	Description
70-0689-01	Dollar Knife

IGT HOPPER KNIFE

- For large coin
- IGT Ref. No. 58505000
- Replaces 58506400
- Plastic material

Part Number	Description
70-1748-00	IGT Hopper Knife

REPLACEMENT HOPPER KNIFE

- For IGT machines
- For quarter coin
- Ref. No. 585 031 00

Part Number	Description
70-0546-00	Replacement Hopper Knife

NYLON KNIFE

- For small denominations

Part Number	Description
70-0910-00	Nylon Knife

SMALL COIN KNIFE GUIDE

- For IGT machines
- Ref. No. 581 317 00

Part Number	Description
70-0619-00	Small Coin Knife Guide

Replacement Parts for IGT Slot Machines

COIN ENTRY COVER PLATE

- Replacement Cover Plate for IGT upright machines
- Covers the opening after the top coin entry is removed
- 16-gauge stainless steel
- Size: 3.21” x 1.29”
- Supplied with four nuts to attach plate

Part Number	Description
42-3412-00	Coin Entry Cover Plate, IGT Upright

COIN ENTRY BLANKING PLATE

- For IGT Slant Top games
- Plate dimensions 6-5/8” x 2-7/8”
- Chrome finish

Part Number	Description
70-1587-00	Coin Entry Blanking Plate, IGT Slant Top

MOUNT FOR IGT DOOR OPTICS

- Ref. No. 65309900W replaces 65309900

Part Number	Description
70-0980-00	Mount For IGT Door Optics

IGT OPTIC EMITTER

New

- For Game King
- IGT Ref. No. 37105500

Part Number	Description
70-0608-00	IGT Optic Emitter

COIN-IN OPTIC

- For IGT Game King machines
- Ref. No. 753 063 00

Part Number	Description
70-0621-00	Coin-In Optic

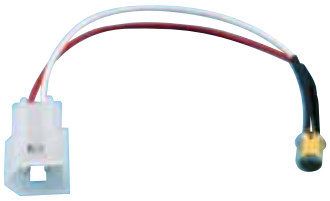
COIN-OUT OPTIC

- For IGT hoppers
- Ref. No. 379 063 00

Part Number	Description
70-0601-00	Replacement Coin-Out Optic

REPLACEMENT RECEIVER

- For IGT Games
- Ref. No. 575 068 00



Part Number	Description
70-0482-00	Replacement Receiver

REPLACEMENT EMITTER

- For IGT Games
- Ref. No. 575 06 900

Part Number	Description
70-0478-00	Replacement Emitter

Replacement Parts for IGT Slot Machines

5 AMP SWITCH FOR IGT

- 5 amp switch
- .110 x .020 tab terminals
- IGT Ref. No. 51514790

Part Number	Description
95-0025-00	5 Amp Switch for IGT

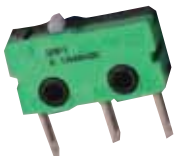
ROLLER SWITCH FOR IGT

- 5 amp switch with roller lever
- .110 tab terminals
- IGT Ref. No. 51015190

Part Number	Description
95-0015-00	Roller Switch for IGT

IGT MICRO MINI-SWITCH

- IGT Ref. No. 51000190
- Replaces 51010890



Part Number	Description
70-0814-00	IGT Micro Mini-Switch

IGT MINI-SWITCH

New

- Ref. No. 51015890

Part Number	Description
70-1752-00	IGT Mini-Switch

ACCEPTOR MOUNTING CLIP

- Made of 6/6 nylon
- Stronger and doesn't dry out quickly
- Natural color

SUZO HAPP

Part Number	Description
42-1070-00	Acceptor Mounting Clip

SELF TEST SWITCH

- For IGT machines
- Ref. No. 516 025 90
- 1 amp, 120 VAC

Part Number	Description
42-8092-01	Self Test Switch

IGT BELLY DOOR SWITCH

- Used in newer games such as Game King
- IGT Ref. No. 51908991, replaces 51908990

Part Number	Description
70-1023-00	IGT Belly Door Switch

IGT CABLE WIRE TO BELLY DOOR

- IGT Ref. No. 29000600
- Length: 16”

Part Number	Description
70-1355-00	IGT Cable Wire to Belly Door

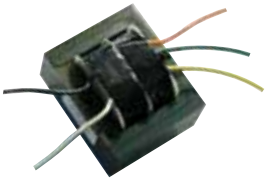
IGT DOOR CABLE

- IGT Ref. No. 29000100
- Length: 11”

Part Number	Description
70-1513-00	IGT Door Cable

24V TRANSFORMER

- For IGT 8032 processor board
- 50/60 Hz
- 5 leads



Part Number	Description
70-1330-00	24V Transformer

Replacement Parts for IGT Slot Machines

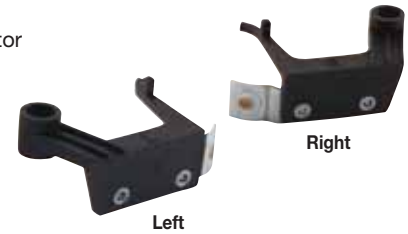
HOPPER MOTOR

- Replacement for IGT Game King machines
- 24V, DC, 25 RPM
- Ref. No. 350 032 90

Part Number	Description
70-0495-00	Hopper Motor

BRAKE ASSEMBLY FOR IGT HOPPER MOTOR

- Now you don't have to replace the complete motor
- Just replace the broken pawl and save big
- Right and left available



Part Number	Description
70-0825-00	Right Brake Assembly
70-0826-00	Left Brake Assembly

6-DIGIT METER FOR IGT SLOT MACHINES

- 6-digit non-resettable counter
- Counting Speed: 20 counts per seconds
- PC Board Mounting, 24VDC
- IGT Ref. No. 29209390

Part Number	Description
42-7431-00	6-Digit Meter for IGT Slot Machines

6-DIGIT METER FOR IGT REEL MACHINES

- 6-digit non-resettable counter
- Counting Speed: 20 counts per seconds
- 13 3/4" flying leads
- 24VDC; no diode
- IGT Ref. No. 29203490

Part Number	Description
42-7430-00	6-Digit Meter for IGT Reel Machines

WIPER ASSEMBLY

- For IGT small coin escalators
- Ref. No. 681 042 00

Part Number	Description
70-0593-00	Replacement Wiper Assembly

HOPPER WIPER RUBBER

- For IGT machines
- Replacement rubber track for hopper wiper
- Held in place with 2 rivets
- Sold by the foot
- 12 feet per box

Part Number	Description
70-0900-00	Hopper Wiper Rubber

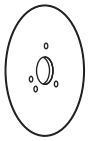
HOPPER BREAK PAWL AND SPRING

- For IGT machines

Part Number	Description
70-0018-00	Spring for Brake Pawl

SHELF WHEEL

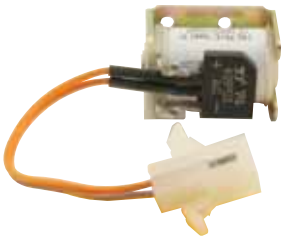
- Two sizes available



Part Number	Description
70-0909-00	Quarter Shelf Wheel without Lip

SOLENOID ASSEMBLY

- For IGT machines
- 24 VDC
- Ref. No. 450 038 00



Part Number	Description
70-0642-00	Solenoid Assembly

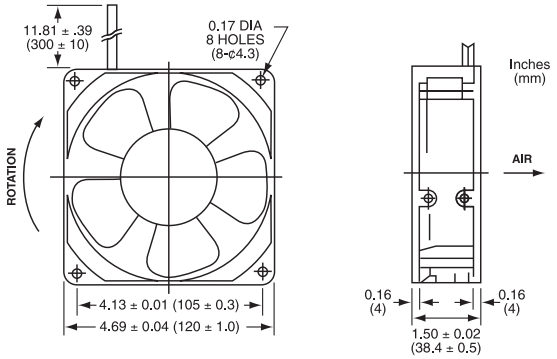
Replacement Parts for IGT Slot Machines

COOLING FAN

- Top quality fan cools the electronics in your video game
- Industry standard size 4.69" square x 1.5" deep
- Low noise; impedance protected
- 110/120V AC fan easily mounts in most equipment
- UL Approved
- Flying leads
- Sealed ball bearing type
- Air flow 98-106 CFM (Cubic feet per minute)
- Cast aluminum frame
- 2,900 - 3,200 RPM

80-0006-20

MOUNTING DIMENSIONS



Part Number	Description
80-0006-10	Fan with Sealed Ball Bearings with Wire Leads
80-0006-11	Fan with Sleeve Bearings
80-0006-20	Metal Guard for Cooling Fan

FINGER GUARD FOR FANS

- Protects fingers from touching fan blades
- Steel wire construction
- Nickel chrome finish
- Spot welded

Part Number	Description
70-0226-50	Finger Guard for 3-1/2" Fan

3" BALL BEARING FAN

- Used in most gaming machines
- Packed 20 per flat

Part Number	Description
70-0225-00	3" Ball Bearing Fan

3-1/2" BALL BEARING FAN

- 3-1/2" Ball Bearing Fans
- 15/16" x 3-1/2" x 3-1/2"
- 50/60 Hz

Part Number	Description
70-0226-00	115V
70-0226-10	12V

3" FAN

- 3.15" square x 1" deep
- Sealed steel ball bearings for long life
- Sturdy plastic construction
- 24V, .18 amp
- Ref. no. 26002990

Part Number	Description
80-0273-00	3" Fan for IGT Slot Machines

PUSHBUTTON PARTS FOR IGT GAMES

Part Number	Ref. No.	Description	Button	Machine
70-0643-00	658 045 00	Plunger	Small Square	PE Plus Video
70-0830-00	658 055 00	Plunger	Rectangle	PE Plus Video
70-0828-00	516 064 00	Bezel	Small Square	PE Plus Video
70-0832-00	517 158 00	Lens Cap	Small Square	PE Plus Video
70-0633-00	517 157 00	Lens Cap	Rectangle	PE Plus Video
70-0681-00	517 098 90	Lens Cap	Large Square	-

Replacement Parts for IGT Slot Machines

ELECTRONIC BALLAST

- For IGT machines
- For F15T8 lamps
- With polymer fuse
- 0.62A, 25VDC
- RoHS Compliant

Part Number	Ref. No.	Description
70-0635-00-R	195 076 90	Electronic Ballast, 15W
70-0824-00	195 069 90	Electronic Ballast, 8W

THIN-LITE BALLAST FOR IGT

New

- Used with IGT I-Game for the top box round circuline bulb

Part Number	Description
91-0991-00	Thin-Lite Ballast for IGT

BALLAST FOR IGT

- Used in conjunction with an 8" and a 12" circuline lamp
- 25VDC, 22-40W, RoHS compliant
- IGT Ref. No. 19507800

Part Number	Description
70-1151-00-R	Ballast for IGT

SLANT TOP CASH LIGHT FIXTURE

- For IGT games
- Fixture only – does not include bulb or cord and plug
- Ref. No. 19635800 replaces 19635400A

Part Number	Description
70-1313-00	Slant Top Cash Light Fixture

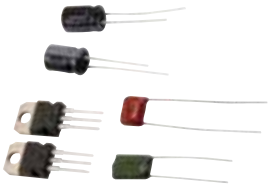
MOLEX EXTRACTION TOOLS

- For IGT Belly light
- Ref. No. 11-03-0044
- For .165" Pins

Part Number	Description
92-0039-00	Molex Extraction Tool

REBUILDING KIT FOR IGT ELECTRONIC BALLAST

- Rebuild and SAVE!
- Includes capacitors, transistor and instructions



Part Number	Description
70-1337-00	Rebuilding Kit for IGT 15W Electronic Ballast
70-1570-00	Rebuilding Kit for IGT 8W Electronic Ballast

REBUILDING KIT FOR IGT 8W ELECTRONIC BALLAST

- Rebuild and SAVE!
- Includes capacitors, transistor and instructions

Part Number	Description
70-1570-00	Rebuilding Kit for IGT 8W Electronic Ballast

T1-3/4 LAMP SOCKET FOR IGT

- Ref. no. 12004390

New

Part Number	Description
70-1331-00	T1-3/4 Lamp Socket for IGT

WEDGE BASE SOCKET FOR IGT

- For #86 lamp on upright S Plus
- Ref. no. 12002790

New

Part Number	Description
70-0506-00	Wedge Base Socket for IGT

MINI-LAMP FOR IGT JEOPARDY GAME

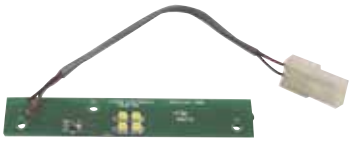
- Very bright 2.6 watts
- Lamp No. 10969
- Wedge Base (T3.25)
- 12 volts

Part Number	Description
91-0586-00	Mini-lamp for IGT Jeopardy Game

Replacement Parts for IGT Slot Machines

TICKET PRINTER ARROW LED BOARDS

- For IGT 19" slant top and upright games
- Save money by replacing original boards that prematurely burn out
- Full 3 year warranty



Part Number	Description
70-1860-00	Ticket Printer Arrow LED Board, IGT Slant Tops
70-1861-00	Ticket Printer Arrow LED Board, IGT Uprights

REEL DENOM AREA LED BOARD

- For IGT 19" slant top games
- Replaces the incandescent lamp on reel machines
- Direct plug-in solution, brighter than the original lamp
- Full 3 year warranty

Part Number	Description
70-1862-00	Reel Denom Area LED Board

BAR TOP BILL VALIDATOR LED DISPLAY PANELS FOR IGT

New

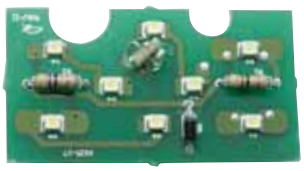
- For IGT bar top games
- Long lasting, easy to install, drop-in replacements
- Two models to choose from for old or newer machines
- Full 3 year warranty

Part Number	Description
70-1863-00	Bar Top Bill Validator LED Board (New)
70-1864-00	Bar Top Bill Validator LED Board (Old)

DENOM PANEL LED BOARD FOR IGT S2000

New

- Replaces incandescent lamps with crisp white LED display
- Decreases power consumption by 60%
- Powered by integrated connector interface from existing machine socket
- Easy installation; no modification, rewiring, cutting or drilling necessary
- Operates on existing 13.5V power supply
- Full 3 year warranty



Part Number	Description
70-1850-00	Denom Panel LED Board for IGT S2000

LED DISPLAY BOARD FOR LARGE GRAPHIC PANELS

New

- LED board for large belly glass and topper graphic panels
- Ideal replacement for IGT S2000, most slant top machines, and upright video poker topper panels
- Two minute installation with no modifications to original hardware or wiring
- Consumes 1/6th of the energy versus a standard fluorescent lamp
- Special hardware packs sold separately
- Full 3 year warranty

Part Number	Description
70-1867-00	LED Display Board for Large Graphic Panels

TICKET AND BILL DENOMINATION LABEL

27-0214-10

- Used on IGT machines
- Label reads
  THIS MACHINE ACCEPTS TICKETS OR $5, $10, $20, $50, $100 BILLS (INSERT CASH TICKETS OR BILLS HERE)
- Unique version, excludes $1 denomination
- Size: 13-5/16" L x 2-1/2" H
- IGT Ref. No. 85352100

Part Number	Description
27-0214-00	Ticket/Bill Denomination Label (excludes $1 amount)
27-0214-10	Ticket/Bill Denomination Label (includes $1 amount)

RETROFIT MONITOR HARNESS FOR IGT GAMES

- For IGT Players Edge Plus games
- Due to a change in Molex plug sizes, new monitors are incompatible with older games
- Harness allows new monitors to be placed into older games
- Ref. No. 607 055 01

Part Number	Description
70-0579-00	Retrofit Monitor Harness for IGT Games

IGT BILL VALIDATOR BEZEL

- Ref. No. 65219400

Part Number	Description
70-1266-00	IGT Bill Validator Bezel

Replacement Parts for IGT Slot Machines

SWITCH LOCKS

- Key is removable in OFF position only
- Momentary or ON/OFF available
- Double bitted keys are keyed alike #2341 with 2 keys per lock
- Spade terminals
- Barrel length: 1.0635”
- Overall length 2.03”
- 4 amps/125VAC, 2amps/250VAC

Part Number	Description
30-1086-00	Momentary Switch Lock Key is removable only in the OFF position
30-1086-01	On/Off Switch Lock Key is removable only in the OFF position

REPLACEMENT INSERT

- For IGT Games
- Ref. No. 58405411

Part Number	Description
70-0452-00	Replacement Insert

IGT PLAYERS PANEL COMPRESSION SPRING

- .610 x .425
- IGT Ref. No. 33103500

Part Number	Description
70-0634-00	IGT Players Panel Compression Spring

SPRING LIFT AIRSHOCKS

- Enable lids, windows and doors to be opened and kept open without assistance

Part Number	Ref. No.	Diameter	Extended Length	Compressed Lenght	Pressure
70-0704-00	SL-35	8"	12.04"	8.46"	70#
70-0705-00	SL-35	8"	12.04"	8.46"	45#
70-0706-00	SL-36	8"	17.20"	10.20"	45#

FIBER OPTIC CABLE

- For IGT machines
- Ref. No. 375 044 90
- Sold per foot

Part Number	Description
70-0600-00	Replacement Fiber Optic Cable

CDS SENTINEL BRACKETS FOR IGT G22

New

70-6106-00

70-6217-00

- CDS Sentinel II and III Player tracking brackets IGT G22 slot machines
- Black mini-texture powder coat finish

Part Number	IGT Ref. No.	Description
70-6106-00	04-G22S2	CDS Sentinel II Bracket For IGT G22 Slant Top
70-6217-00	04-G22S3	CDS Sentinel III Bracket For IGT G22 Slant Top

GAMING BRACKETS FOR IGT S-2000 UPRIGHT REEL GAMES

70-1322-00

70-1322-00

- Compatible with IGT S-2000 upright 3 reel games
- Used with or without ticket printer in the top box of the game
- No step down adapter required for LCD display
- Faceplate is coated with a black mini-textured finish

Part Number	Description
70-1322-00	3 Reel S-2000 Bracket
70-1323-00	3 Reel S-2000 Matching Face Plate

70-1542-00

70-1543-00

Part Number	Description
70-1542-00	5 Reel S-2000 Bracket
70-1543-00	5 Reel S-2000 Matching Face Plate

ATI/CDS PLAYER TRACKING BRACKET FOR IGT SLANT TOP GAMES

- Used in all IGT slant tops 52000 I-Game or Game King
- Designed to accept all three standard components (card reader, keypad and 2” x 16” LCD display)
- Does not require the step-down adapter for your display
- Replaces a solid blank panel
- Black mini-textured powder coat finish on 16-gauge metal
- Made in the USA

Part Number	Description
70-1485-00	CDS Bracket/IGT Slant Top Games

Replacement Parts for IGT Slot Machines

CDS CARD READER BRACKET FOR IGT AVP UPRIGHT GAMES

New

- Used with original IGT AVP participation games including “Star Wars”, “Gilligan’s Island” and “Match and Win”
- Black textured powder coat bracket
- No faceplate required
- RoHS Compliant
- Made in the USA

Part Number	Description
70-1614-00	Standard Card Reader Bracket

ATI/CDS BRACKET FOR IGT ‘TRIMLINE’ GAMES

New

- Bracket for all IGT “Trimline” AVP Games
- Designed to accept standard game components
- Black finish

Part Number	Description
70-1829-00	Bracket for IGT “Trimline”

ATI/CDS PLAYER TRACKING BRACKET FOR 17” MONITORS

- Used in all IGT upright video games
- Available for use with 17” monitors and ticket printers
- Designed to accept all three standard components (card reader, keypad and 2” x 16” LCD display)
- Brackets replace solid blank bracket mounts
- 17” monitor bracket needed with all 17” upright games being converted from coins to tickets
- Brackets are 16-gauge metal; Matching faceplates are 20 gauge metal with black mini-textured powder coat finish
- Made in the USA

Part Number	Description
70-1321-00	Metal Bracket for 17” Monitors

ATI/CDS PLAYER TRACKING BRACKET FOR 19” MONITORS

- Used in all IGT upright video games
- Designed to accept all three standard components (card reader, keypad and 2” x 16” LCD display)
- Brackets replace solid blank bracket mounts
- 19” monitor bracket needed with all 19” upright games being converted from coins to tickets
- Brackets are 16-gauge metal; Matching faceplates are 20 gauge metal with black mini-textured powder coat finish
- Made in the USA

Part Number	Description
70-1486-00	Metal Bracket for 19” Monitors

ATI/CDS FACEPLATE FOR 17” MONITORS

- Used in all IGT upright video games
- For use with 17” monitors and ticket printers or 17” monitors (with or without ticket printers)
- Designed to accept all three standard components (card reader, keypad and 2” x 16” LCD display)
- Brackets replace solid blank bracket mounts
- 19” monitor faceplate is designed with EZ lift wings for easy removal
- Brackets are 16-gauge metal; Matching faceplates are 20 gauge metal with black mini-textured powder coat finish
- Made in the USA

Part Number	Description
70-1320-00	Matching Black Faceplate for 17” Monitors

ATI/CDS FACEPLATE FOR 19” MONITORS

- Used in all IGT upright video games
- Available for use with 19” monitors and ticket printers
- Designed to accept all three standard components (card reader, keypad and 2” x 16” LCD display)
- Brackets replace solid blank bracket mounts
- 19” monitor bracket needed with all 19” upright games being converted from coins to tickets
- Brackets are 16-gauge metal; Matching faceplates are 20 gauge metal with black mini-textured powder coat finish
- Made in the USA

Part Number	Description
70-1484-00	Matching Black faceplate for 19” Monitors

Replacement Parts for Konami

COLD CATHODE FOR KONAMI BELLY GLASS AND KONAMI GAMES

New

- Single raw cold cathode lamp for Konami belly glass that is back-lit with cold cathode lamps
- Single raw cold cathode for Konami games with 17" and 19" LCD monitors
- No wiring or connectors included
- Rated at 70,000 hours

Part Number	Description
91-2146-00	Cold Cathode for Konami Belly Glass
91-8912-00	17" Cold Cathode for Konami Games
91-1954-00	19" Cold Cathode for Knoami Games

COLD CATHODE FOR KONAMI PLAYER TRACKING

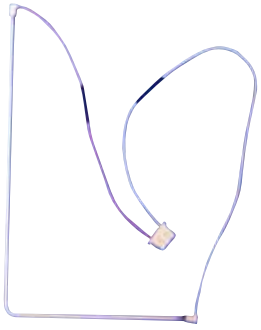
New

- For Komami Casino Management System Player Tracking
- Wiring harness included

Part Number	Description
91-8647-00	Cold Cathode for Konami Player Tracking

COLD CATHODE FOR KONAMI

New

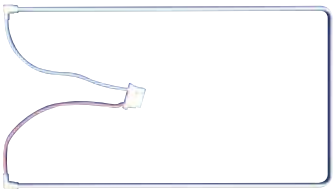


- "L" shaped lamp for Konami 7" Bonus LCD
- Wiring harness included

Part Number	Description
91-4561-00	Cold Cathode for Konami

COLD CATHODE FOR KONAMI

New



- "U" shaped lamp for Konami 7" Bonus LCD
- Wiring harness included

Part Number	Description
91-1006-15	Cold Cathode for Konami

MYLAR OVERLAY FOR KONAMI PLAYER TRACKING

New

- For Komami Casino Management System (KCMS) Player Tracking touch screen

Part Number	Description
91-8779-00	Mylar Overlay for Konami Player Tracking

TOUCH SCREEN FOR KONAMI PLAYER TRACKING

New

Part Number	Description
49-1091-00	Touch Screen for Konami Player Tracking

CDS SENTINEL III BRACKET FOR KONAMI K2V MACHINE

New

70-2347-00

70-2416-00

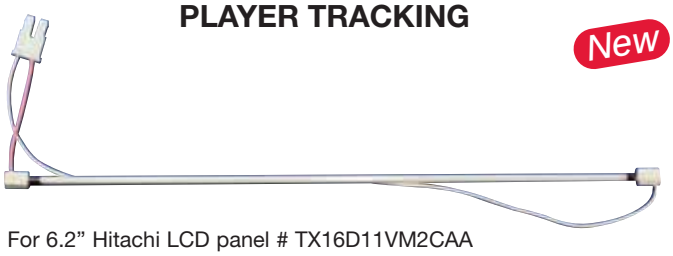
- CDS Sentinel III player tracking bracket for Konami K2V upright and slant top machines

Part Number	Konami Ref. No.	Machine	Color
70-2347-00	191165A-00	K2V Slant Top	Chrome
70-2416-00	191034A-25	K2V Upright	Black

Replacement Parts for Multimedia Games

COLD CATHODE FOR MULTIMEDIA GAMES PLAYER TRACKING

New



- For 6.2” Hitachi LCD panel # TX16D11VM2CAA
- Wiring harness included

Part Number	Description
91-10012-00	Cold Cathode for MultiMedia Games Player Tracking

COLD CATHODE LAMPS FOR MULTIMEDIA VLT AND SLOT MACHINES

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness

Part Number	Description
91-9454-00	Cold Cathode for 15” MultiMedia LCD
91-9592-00	Cold Cathode for 17” MultiMedia LCD
91-9731-00	Cold Cathode for 19” MultiMedia LCD
91-9871-00	Cold Cathode for 23” MultiMedia LCD

LCD PANEL FOR MULTIMEDIA GAMES PLAYER TRACKING

New

- For 6.2” Hitachi LCD panel # TX16D11VM2CAA
- Includes 4-wire touch screen

Part Number	Description
49-9592-00	LCD Panel for MultiMedia Games Player Tracking

MYLAR OVERLAY FOR MULTIMEDIA GAMES PLAYER TRACKING

New

- For 6.2” Hitachi LCD panel # TX16D11VM2CAA
- Includes copper tape

Part Number	Description
91-10154-00	Mylar Overlay for MultiMedia Games Player Tracking

TOUCH SCREEN FOR MULTIMEDIA GAMES PLAYER TRACKING

New

- For 6.2” Hitachi LCD panel # TX16D11VM2CAA

Part Number	Description
49-9454-00	Touch Screen for MultiMedia Games Player Tracking

Replacement Parts for Spielo

COLD CATHODE LAMPS FOR SPIELO VLT AND SLOT MACHINES

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness

Part Number	Description
91-10297-00	Cold Cathode for 15” Spielo LCD
91-10441-00	Cold Cathode for 17” Spielo LCD
91-10586-00	Cold Cathode for 19” Spielo LCD

Parts for WMS Gaming

COLD CATHODE LAMPS FOR WMS LCD MONITORS

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness

Part Number	Description
91-11027-00	Cold Cathode for 19" WMS LCD
91-9317-00	Cold Cathode for 22" WMS LCD

LCD FOR WMS BLUEBIRD MACHINES

New

- 6.4" LG LCD # LB064V02-TD01 for bonus screen LCD

Part Number	Description
49-9181-00	LCD for WMS Bluebird Machines

3M MICROTOUCH 6.71" TOUCH SCREEN FOR WMS

- Used on WMS Bluebird reel slot upright games
- Includes Serial touch controller (EXII-7720SC)
- ClearTek™ II resilient top coat provides smooth, easy glide surface while offering durable scratch resistance
- Accurate and fast touch response
- Performance unaffected by everyday contaminants in the environment

Part Number	Description
49-2824-00	3M MicroTouch 6.71" Touch Screen for WMS

COLD CATHODE FOR WMS SMART LCD AND 19" FIJITSU LCD

New

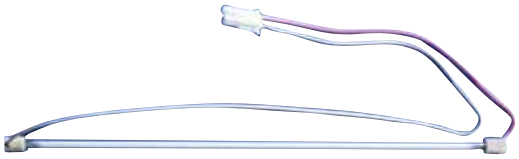
- Single raw cold cathode lamp for WMS slot machine with 19" Smart Technology LCD #SV3190W
- Single raw cold cathode lamp for WMS slot machine with 19" Fujitsu LCD
- No wiring or connectors included
- Rated at 70,000 hours

Part Number	Description
91-2017-00	Cold Cathode for WMS Smart LCD

Part Number	Ref. No.	Description
91-2081-00	FLC48SXC8B-11AA	Cold Cathode for WMS 19" Fujitsu LCD
91-2212-00	NA19026-C261	Cold Cathode for WMS 19" Fujitsu LCD

COLD CATHODE FOR WMS BLUEBIRD BONUS SCREEN

New



- Single lamp assembly for 6.4" LCD (LG #LB064V02) in WMS BlueBird bonus screen
- Includes wiring and connectors
- Rated at 70,000 hours

Part Number	Description
91-1771-00	Cold Cathode for WMS BlueBird Bonus Screen

INTERNATIONAL POWER SUPPLY FOR WMS 360 AND 550

- Open frame international power supply for WMS 550 machines
- +5V@10A, +12V@5A, -12V@1A
- IL, CSA AND TUV, Bulit-In EMI Filter

Part Number	Description
80-0341-10	International Power Supply for WMS 360 and 550

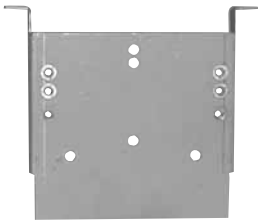
Parts for WMS Gaming

OPEN FRAME POWER SUPPLY FOR WMS BLUEBIRD

- 300W output max for use in WMS Bluebird machines

Part Number	Description
80-0459-10	300W Power Supply for WMS Bluebird

STANDARD CARD READER BRACKET



Part Number	Description
70-1544-00	Standard Card Reader Bracket

CDS SENTINEL III BRACKET AND DECAL FOR WMS BLUEBIRD

New

- Speaker plate bracket and decal for WMS Bluebird slant top
- WMS Ref. No. for bracket 01-013754-28-P06
- WMS Ref. No. for decal 31-012540-39

Part Number	Description
70-2212-00	CDS Sentinel III Bracket for WMS Bluebird
70-2279-00	CDS Sentinel III Decal for WMS Bluebird

CDS SENTINEL III BRACKET FOR PRE-2006 BLUEBIRDS

New

- Player tracking bracket for lower door CDS display plate
- For older WMS Bluebird cabinets prior to 2006
- WMS ref. no. 01-009825-38-D04

Part Number	Description
70-7627-00	CDS Sentinel III Bracket for Pre-2006 Bluebirds

6-DIGIT METER FOR WMS GAMING

- 6-digit non-reset meter counts up to 600 coins per minute
- Back of panel mounting style
- Ultrasonically welded tamper-proof end cap
- Pulse Length: 50 ms min
- Dimensions: .075 W x .125 H
- Power consumption: 5 watts
- Voltage: 120V AC

Part Number	Description
42-7427-00	ENM Meter for WMS

GAS STRUT FOR WMS SLANT TOP SLOTS

- Allows door to be held open without assistance
- Williams old ref no. 20-003068
- Williams new ref. no. 20-004294

Part Number	Description
70-0315-00	Gas Strut for WMS Slant Top Slots

FLUORESCENT LAMP BALLAST FOR WMS BLUEBIRD

- 15W, 85-265 VAC ballast for WMS Bluebird machines

Part Number	Description
20-10481.1	Fluorescent Lamp Ballast for WMS Bluebird

POWER SUPPLY FOR WMS BLUEBIRD

- For use in WMS Bluebird slot machines
- UL recognized, TUV and CE approved
- 1-Year warranty

AC Input: 115V ~ 10A
230V ~ 5A

Frequency: 50 - 60Hz

DC Output: +5V / 15A (red)
+12V / 13A (yellow)
+3.3V / 8A (orange)
+15V / 6A (blue)
+5Vsb / 1A (white)

Output Max:300W

Part Number	Description
80-0459-20	Power Pro Power Supply for WMS Bluebird

ELITE™ SLOT TOPPER LED LIGHT PANEL

New

- Display messages on both sides of this panel and suspend the unit from the ceiling, or use with included custom-made mounting bracket
- Ultra-thin, lightweight, and energy efficient light panels create an eye-catching display that lasts for up to ten years
- Revolutionary edge-lit Elite™ Light Panel illuminates from the sides of the frame without having inefficient bright spots and shadows that occur in traditional back-lit panels
- Two pieces of acrylic hold the poster in place with four high-quality threaded chrome studs
- The edge of the frame is laser cut at 45 degrees, which creates the unique halo effect around the perimeter
- This halo effect draws the eye to the frame and the image displayed within it to create a striking, attractive presentation
- UL recognized and CE approved
- Mounting hardware included
- Six month limited manufacturer's warranty

Specifications

- Size: 60" X 20" X 2.5"
- Image Size: 55.3125" X 15"
- Viewable Area 54.3125" X 14"
- Weight: 55 lbs

Features:

- LEDs that last up to 100,000 hours
- Brilliant and homogeneous light works well in high and low ambient lighting conditions
- Low power consumption
- Generates very little heat – cool to the touch
- Cost effective
- Zero maintenance costs
- High durability
- Ultra Slim - Only 2.5" deep
- Quick and easy changing of the product image

Part Number	Description
27-0326-00	Elite™ Slot Topper LED Light Panel

ELITE™ END CAP LED LIGHT PANEL

New

- Ultra-thin, lightweight, and energy efficient light panels create an eye-catching display that lasts for up to ten years
- Revolutionary edge-lit Elite™ Light Panel illuminates from the sides of the frame without having inefficient bright spots and shadows that occur in traditional back-lit panels
- Two pieces of acrylic hold the poster in place with four high-quality threaded chrome studs
- The edge of the frame is laser cut at 45 degrees, which creates the unique halo effect around the perimeter
- This halo effect draws the eye to the frame and the image displayed within it to create a striking, attractive presentation
- UL recognized and CE approved
- Six month limited manufacturer's warranty

Features:

- LEDs that last up to 100,000 hours
- Brilliant and homogeneous light works well in high and low ambient lighting conditions
- Low power consumption
- Generates very little heat – cool to the touch
- Cost effective
- Zero maintenance costs
- High durability
- Ultra Slim - Only 1 ½" deep
- Quick and easy changing of the product image

Specifications:

- Size: 24" X 36" X 1.5"
- Image Size: 19" X 30.75"
- Viewable Area: 17.75" X 29.5"
- Weight: 16.5 lbs

27-0436-00

Part Number	Description
27-0352-00	Elite™ End-Cap LED Light Panel
27-0436-00	Mounting Bracket for Upright Slot Machine
27-0466-00	Mounting Bracket for Slant Top Slot Machine

3M™ DI-NOC™ FILM

Update the Look of Your Slot Floor

New

An Example of the Process - Before and After

3M DI-NOC™ FILM

Cover your slot machine cabinets with 3M™ DI-NOC™

- High-quality, lightweight, self-adhesive, vinyl film laminate
- 75% faster installation than traditional laminates resulting in less down time and therefore more profits
- Over 600 patterns and finishes to choose from
- Used in casinos as well as throughout Japan, Europe, and Asia Pacific as an architectural finish
- Ideal for high limit areas

Why choose DI-NOC™?

- Recovering of machines can be completed right on the casino floor. That cannot be done with traditional lamination.
- No need to move your machine off the casino floor
- No external items such as locks, speakers, etc. on the machine need to be removed for installation
- Easily conforms around radius and surface edges with a heat gun; even into vented areas
- Minimal disruption to your casino floor
- No noise or odor
- Faster installation and less down time means more profits
- Refurbish a machine in approximately 40 minutes on the casino floor

Features:

- 3M™ Comply™ Adhesive
- 8.3 Mils Thick PVC
- Stain Resistant
- Light Weight
- Non-Flammable
- Minimal Mess
- Proven Performance
- Anti-Bacterial (PS/DF)

Benefits:

- Easy Application
- Durable
- Easy to Clean
- Easy to Handle
- Safe to Use
- Apply on Site
- Peace of Mind
- Healthy Environment

Type & Part Number	Roll Size	Total Sq. Ft. Per Roll
CARBON		
CA421	4' X 164'	656
CA422	4' X 164'	656
FINE WOOD		
FW340	4' X 164'	656
FW618	4' X 164'	656
LEATHER		
LE783	4' X 164'	656
METALLIC		
ME147	4' X 82'	328
ME380	4' X 82'	328
METALLIC WOOD		
MW777	4' X 164'	656
CHIC		
PA045	4' X 164'	656
PA181	4' X 164'	656
SAND		
PC491	4' X 164'	656
PC751	4' X 164'	656
SINGLE COLOR		
PS504	4' X 164'	656
PS665	4' X 164'	656
PS917	4' X 164'	656
PS999	4' X 164'	656
STONE		
ST440	4' X 164'	656
WOOD GRAIN		
WG364GN	4' X 82'	328
WG698	4' X 164'	656
WG866	4' X 164'	656
TRAINING		
DI-NOC1	DI-NOC™ Baltimore, MD Training	
DI-NOC2	DI-NOC™ On-Site Training	

See Page 148 for Color Swatch Samples

3M™ DI-NOC™ FILM

New

Frequently Asked Questions

How do I know how much DI-NOC™ to order?

- Measurements for DI-NOC™ should be made in square feet NOT linear feet
- Measure the length and width of each side of your machine, adding an additional 1" "bleed" on both the top and bottom for overage
- Rolls are 4' in width and CANNOT be ordered in widths less than that. The length with vary per style.
- Add the total square footage of each side to get the total square footage per machine
- For OEMs, use of a Plotting Program will insure the least amount of product waste

How much DI-NOC™ is needed on common machines found on the casino floor?

IGT TrimLine: 36 sq. ft.*	Bluebird Round Top WMS: 38 sq. ft.*
Aristocrat Mark 6: 40 sq. ft.*	Atronic: 30 sq. ft.*
Bally CineVision: 72 sq. ft.*	Bally S9000 and M9000: 36 sq ft.*

**Please note that all the above measurements are approximates only. Final measurements are the responsibility of the customer as the area being covered on the machine will vary depending on the customer's preference.*

How is DI-NOC™ sold?

- DI-NOC™ is sold per square foot
- Orders placed for less than a full roll will always come 4' in width.
- Price breaks apply to the purchase of a full roll
- A standard roll size is 4' X 164'. Some rolls are available in different factory lengths.
- Prices vary by color and size of roll.

Can I order a custom color to match a finish in my casino?

- Yes. There is a 20 roll minimum.

Can I apply a layer of DI-NOC™ on another layer DI-NOC™ Film?

- Yes, one or more layers of DI-NOC™ Film can be applied to the first layer of DI-NOC™ Film. It is not recommended to apply more than 3 layers on top of each other.

Are there temperature limitations?

- Recommended application temperature range is 61-82° F (68-77° F is preferred)
- Store film in a clean, dry environment; free from direct sunlight and at an ambient temperature below 100° F. Use within one year of purchase
- The film was tested on an aluminum plate and exposed to temperatures ranging from –22° F to 149° F for 12 days. No peeling or discoloration resulted

How do I get DI-NOC™ installed?

Full professional installation

- Installation is quoted out on a project by project basis depending upon the total number of machines and the location of those machines. Installation costs would also include any travel expenses incurred by the installer.

With Your Own Trained Employees

- Training costs $995.00 per person. This includes classroom instruction and materials.
- Training can be done on site or in the DI-NOC™ training facility located in Baltimore, MD.
- Training done in Baltimore is $995 for a 1 day – 8 hour class.
- Travel expenses are the responsibility of the customer.
- On-site training is available for up to 5 students per class.

Are there other applications and markets for this product?

The possibilities are endless...

- Elevators
- Walls & Columns
- Partitions
- Galleries & Museums
- Dining Areas
- Offices
- Escalators
- Casinos
- Cruise Ships
- Elevators
- Lobbies
- Restrooms
- Doors & Hallways
- Ceilings

3M™ DI-NOC™ FILM

DI-NOC™ SWATCH SAMPLES

New

Carbon CA421

Carbon CA422

Fine Wood FW340

Fine Wood FW618

Leather LE783

Metallic ME147

Metallic ME380

Metallic Wood MW777

Chic PA045

Chic PA181

Sand PC491

Sand PC751

Single Color PS504

Single Color PS665

Single Color PS917

Single Color PS999

Stone ST440

Wood Grain WG364GN

Wood Grain WG698

Wood Grain WG866

LITEON DVD-ROM DRIVE, 16X

- Used with Bally EVO System slot machines
- 16x DVD & 48x CD Max DVD-ROM Drive with ATAPI/E-IDE Interface
- Buffer Size, 512KB
- Fast Access Time
- Auto Balance Spindle Design
- Compatible with major Disc Formats
- Windows XP/2000/ME/98/NT Compatible
- MPC level 3, PC99 and Multi-Read Compliant

Part Number	Description
49-2211-00	Liteon 16x DVD-ROM Drive

REPLACEMENT CD-ROM DRIVE FOR MERIT MEGATOUCH

- Speed up the performance of your games with this lighting fast 54X speed drive
- Games load up faster and provide more playing time and earnings potential
- Easy installation
- 1 Year Warranty

Part Number	Description
49-3133-00	54X Replacement CD-Rom drive/ Merit Megatouch XL Games

SKIP DOCTOR CD REPAIR TOOL

- Made in USA
- Repair CD scratches
- Radial resurfacing action removes or reduces the severity of harmful abrasions, scratches and other surface imperfections
- Provides the perfect control so that the right amount of material is removed from the CD every time
- Also repairs DVDs, and PlayStation games

Part Number	Description
27-1423-01	Motorized Skip Doctor CD Repair Tool

CARDCOM CARD READER FOR CDS PLAYER TRACKING

- Used in Casino Data Systems Player Tracking System
- Replacement for Neuron or Panasonic card readers
- Specifications: 2 tracks, mechanical switch, half-data length

Part Number	Description
80-1157-01	Cardcom Card Reader with Bezel

PANASONIC CARD READER FOR PLAYER TRACKING

- Used in IGT Smart System Player Tracking Units
- Panasonic # ZU-M2121-S352 magnetic card reader
- Black bezel included
- 2 tracks, magnetic head, small size, light weight
- Size: Outside dimensions 102mm (W) X 100mm (D) X 26mm (H)

Part Number	Description
80-1208-00	Panasonic Card Reader

PANASONIC CARD READER FOR SIGMA GAMES

- For Sigma Dual Track System
- Replaces ZU-M2242S301
- Ref. No. ZU-M2242S3R2

Part Number	Description
80-0439-00	Panasonic Card Reader for Sigma Games

ACRYLIC SIGN HOLDER

- Clear acrylic tubing fits over slot tower light to holds signs
- Slot tower light is easily visible through the clear acrylic
- Slotted at both ends to hold a wide variety of signs
- One slot is .25” wide x 2” long to hold flat slot toppers or foam core board
- One slot is 1/16”wide x 1” long for thinner signage such as paddles
- Size: 2.25” ID x 2.50” OD x 8” High
- (Light Tower Not Included)

Part Number	Description
27-1461-00	Acrylic Sign Holder

DOT MATRIX DISPLAY

- Used on Acres VFD
- Noritake 192x16 display
- Noritake # MH19216E

Part Number	Description
49-2374-00	Dot Matrix Display for Acres VFD

DISCOVERY STYLUS PDA PEN

- For use with the Acres tracking system
- Pint-sized twist ball pen features a fixed stylus point on the crown
- Perfect for PDAs and touch screens
- Fits in most PDA cases, pockets, purses and backpacks
- Sold in lots of 100 only

Part Number	Description
49-2189-00	Discovery Stylus PDA Pen

THE FLOOR PLUG

New

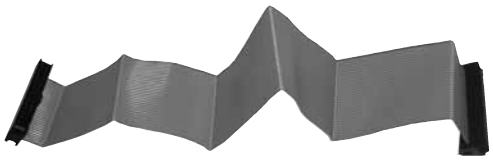
27-0379-00

27-0407-00

- A quick, easy and effective way to fill cement core holes
- The Plug expands to fill un-needed core holes in casino cement floors
- No more filling core holes with paper and concrete or covering them with electrical boxes that patrons can trip over
- The Plug can be easily removed and the core hole can be used again and again
- The installation tool with the included Allen wrench must be used to install The Plug
- Fits core holes with a 4” diameter
- Constructed of two high grade 3/16” steel plates with a 1” thick Neoprene rubber center which expands to fill the hole
- The Plug center has a 3-7/8” O.D. before compression and will expand to 4-1/2” to form a flush tight seal
- The installation tool is sold separately
- Other plug diameters are available on special order but minimum order requirements will apply

Part Number	Description
27-0379-00	The Floor Plug
27-0407-00	The Floor Plug Installation Tool

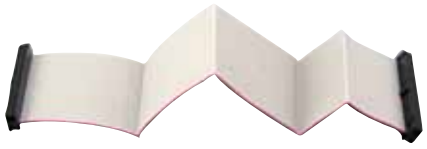
RIBBON CABLE FOR ITHACA PRINTER



- 10-1/2" ribbon with 30 pins for Ithaca printers
- Also available with protective guard that shields ribbon from getting pinched in the door of the machine

Part Number	Description
95-2391-00	Ribbon Cable for Ithaca Printer
70-1701-00	Ithaca Printer Ribbon with Protective Cable

RIBBON CABLE FOR SEIKO PRINTER



- 50-pin connector on both ends
- 10" long

Part Number	Description
95-2384-00	Ribbon Cable for Seiko Printer

TICKET & BILL DENOMINATION LABEL

- Used on IGT machines
- Label reads
  THIS MACHINE ACCEPTS TICKETS OR $5, $10, $20, $50, $100 BILLS (INSERT CASH TICKETS OR BILLS HERE)
- Unique version, excludes $1 denomination
- Color: White print on black background with yellow arrow
- Size: 13-5/16" L x 2-1/2" H
- Both similar to IGT Ref. No. 85352100

Part Number	Description
27-0214-10	Ticket/Bill Denomination Label (with $1 amount)
27-0214-00	Ticket/Bill Denomination Label (without $1 amount)

"REDEEM TICKET WITH CASHIER" LABEL

- Label reads
  REDEEM TICKET WITH CASHIER OR USE AT OTHER MACHINES ALL WINS PAID BY MACHINE OR ATTENDANT
- Size: 8-3/8" L X 5/16" W
- 7 Mil thick with 3M adhesive on front on label
- IGT Ref. No. 85259100

Part Number	Description
27-0221-00	"REDEEM TICKET WITH CASHIER" Label

REPLACEMENT RIBBON PRINTERS

- Top quality at an economical price

95-1589-00

Part Number	Description	Ref. No.	Ink color
95-1589-00	For Citizen Printers	IR-61 R/B	Red/Black
95-1776-00	For Okidata 100 Series Printer	-	Black

"TEMPORARILY OUT OF SERVICE" SIGN FOR SLOT MACHINES

- Informs customers that machine is out of service
- "Lollipop" design sign is placed in coin slot
- Red print on white background
- Printing on one side only
- Size: 2.75" W x 4.5" H
- Material: .020 White Styrene

Part Number	Description
27-0161-00	"Temporarily Out Of Service" Sign

"VALIDATOR OUT OF ORDER" LABEL

- Black lettering on white background
- Size: 1-1/4" x 4"
- Adhesive backed
- Sold in rolls of 500

Part Number	Description
27-1222-00	"VALIDATOR OUT OF ORDER" Label

"OUT OF ORDER" LABEL

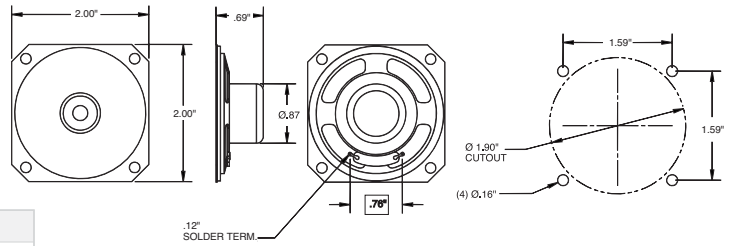
- Size: 1-1/4" x 4"
- Adhesive backed
- Sold in rolls of 500

Part Number	Description
27-1225-00	Black Lettering on White Background
27-1218-00	Red Lettering on White Background

Shielded Speakers

2” SPEAKER

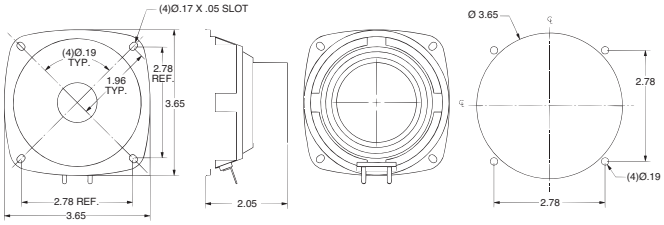
- 2” Diameter
- Full range
- 4 watt
- 8 ohm
- See chart for specifications



Part Number	Description
70-0014-00	2” Shielded Speaker, 4 Watt

3.5” SPEAKER

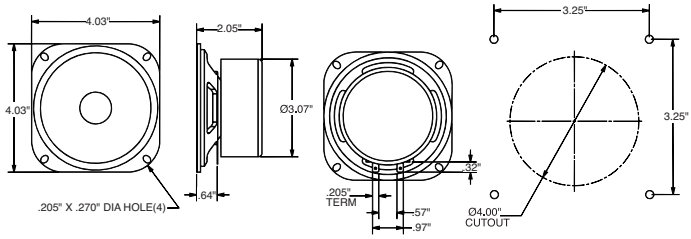
- 3.5” Diameter
- Speaker has a metal shield surrounding the magnet to prevent any interference with the monitor
- 8 ohm, 5 watt max.
- See chart for specifications



Part Number	Description
50-9000-01	3.5” Shielded Speaker, 5 Watt

4” SPEAKER

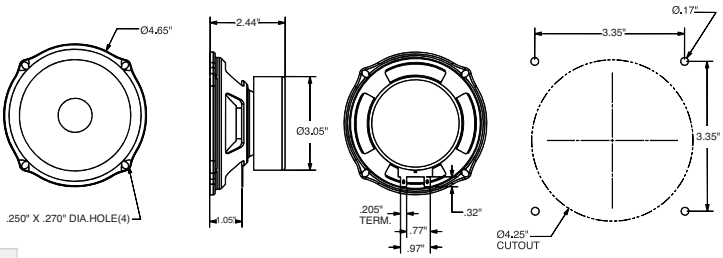
- 4” Diameter
- Speaker has a metal shield surrounding the magnet to prevent any interference to the monitor
- 8 ohm, 12 watt
- See chart for specifications
- RoHS



Part Number	Description
49-0228-00R	4” Shielded Speaker, 12 Watt

5” SPEAKER

- 5” Diameter
- Speaker has a metal shield surrounding the magnet to prevent any interference to the monitor
- 8 ohm, 12 watt
- See chart for specifications



Part Number	Description
50-9005-00	5” Shielded Speaker, 12 Watt

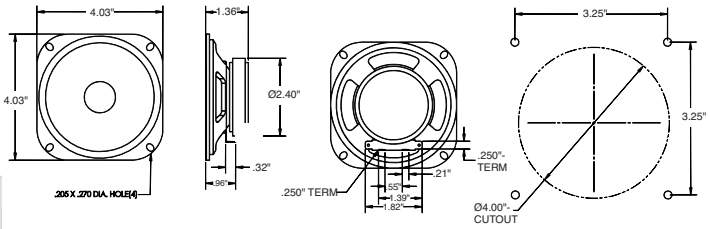
Specifications

Part Number	Diameter in/(mm)	Height in/(mm)	Nom (Watt)	Max (Watt)	Ohms	Hz	Db	Range	Magnet	Net Weight	Frame	Diaphragm	Terminal Size (in)
70-0014-00	1.97/(50)	.75/(mm)	2	4	8	430	80	4,000	13mm x 10mm	40g	Square	Paper	solder
50-9000-01	3.5(93)	-	3	5	8	120	85	15,000	1.7 oz	-	Square	Paper	.250
49-0228-00R	3.94(100)	1.93 (49)	4	12	8	180	71	12,000	6 oz	610g	Square	Paper	.250
50-9005-00	4.69(119)	2.13(54)	4	12	8	135	91	8,000	6 oz	610g	Pin Cushion	Paper	.250

Unshielded Speakers

4" SPEAKER

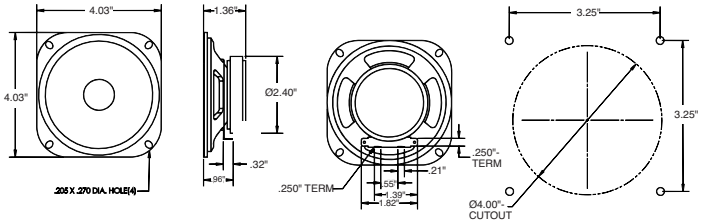
- 4" Diameter
- Full range
- 8 watt
- 8 ohm
- See chart for specifications



Part Number	Description
50-9000-00	4" Unshielded Speaker, 8 Watt

4" SPEAKER

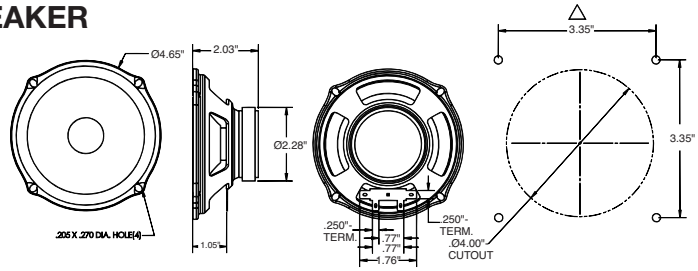
- 4" Diameter
- Full range
- 12 watt
- 8 ohm
- See chart for specifications



Part Number	Description
50-9002-00	4" Unshielded Speaker, 12 watt

5" SPEAKER

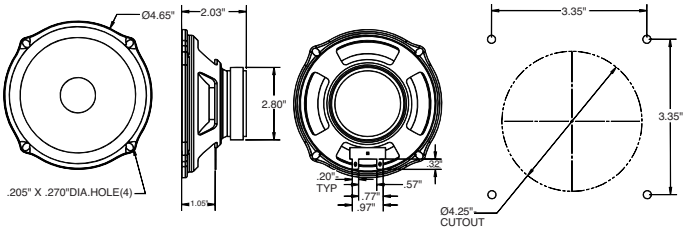
- 5" Diameter
- Full range
- 8 watt
- 8 ohm
- See chart for specifications



Part Number	Description
50-9003-205	5" Unshielded Speaker, 8 watt

5" SPEAKER

- 5" Diameter
- Full range
- 12 watt
- 8 ohm
- See chart for specifications



Part Number	Description
50-9004-00	5" Unshielded Speaker, 12 watt

Specifications

Part Number	Diameter in/(mm)	Height in/(mm)	Nom (Watt)	Max (Watt)	Ohms	Hz	Db	Range	Magnet	Net Weight	Frame	Diaphragm	Terminal Size (in)
50-9000-00	3.94(100)	1.42(36.1)	2	8	8	160	89	14,000	3 oz	280g	Square	Paper	.205/.250
50-9002-00	3.94(100)	1.66(42.1)	4	12	8	160	90	15,000	6 oz	388g	Square	Paper	.205/.250
50-9003-205	4.73(120)	1.67(42.5)	2	8	8	135	91	15,000	3 oz	265g	Pin Cushion	Paper	.205/.250
50-9004-00	4.73(120)	1.92(48.8)	4	12	8	135	91	8,000	6 oz	440g	Pin Cushion	Paper	.250

4" ROUND SPEAKER GRILLE

- Metal mesh grille
- 4-1/2 center-to-center mounting holes
- Color: black

Part Number	Description
49-5181-00	4" Round Speaker Grille

4" SQUARE SPEAKER GRILLE

- Metal mounting frame
- Black plastic grille snaps onto metal mounting frame

Part Number	Description
49-5182-00	Square Speaker Grille

VENIA HIGH SECURITY CAM LOCKS

New

VENIA

- 14-pin high security locks
- Brass housing with high quality spindle
- Chrome finish
- Nickel silver key for durability
- Keyed alike or keyed different
- Keyed different locks are supplied with 2 keys per lock
- Keys for keyed alike locks are sold separately
- Protective collar and cam included
- 1-1/4" cam included

Part Number	Length	Description
30-1800-KD	5/8" (16mm)	Keyed Different
30-1800-V1058	5/8" (16mm)	Keyed Alike
30-1802-KD	7/8" (22.3mm)	Keyed Different
30-1802-V1078	7/8" (22.3mm)	Keyed Alike
30-1804-KD	1-1/8" (28.6mm)	Keyed Different
30-1804-V1118	1-1/8" (28.6mm)	Keyed Alike
30-1810-10	Keys Only For Keyed Alike Locks	

VENIA HIGH SECURITY SWITCH LOCKS

New

VENIA

- 14-pin high security locks
- Length 1-7/16" (36.4mm)
- Brass housing with high quality spindle
- Chrome finish
- Nickel silver key for durability
- Keyed alike or keyed different
- Keyed different locks are supplied with 2 keys per lock
- Keys for keyed alike locks are sold separately
- Protective collar and cam included

Part Number	Description
30-1838-KD	Venia On/Off Switch Lock, Keyed Different
30-1838-VS2	Venia On/Off Switch Lock, Keyed Alike
30-1839-KD	Venia Momentary Auto Return Switch Lock, Keyed Different
30-1839-VS20	Venia Momentary Auto Return Switch Lock, Keyed Alike

SWITCH LOCKS

- Key is removable in OFF position only
- Momentary or ON/OFF available
- Double bitted keys are keyed alike #2341 with 2 keys per lock
- Spade terminals
- Barrel length: 1.0635"
- Overall length 2.03"
- 4 amps/125VAC, amps/250VAC

Part Number	Description
30-1086-00	Momentary Switch Lock Key is removable only in the OFF position
30-1086-01	On/Off Switch Lock Key is removable only in the OFF position

KEYLESS THUMB TURN CAM LOCKS

- Useful for shipping coin-op cabinets to prevent door from opening in transit
- 90 degree (1/4 turn) rotation to lock/unlock
- Nickel finish zinc alloy housing and handle
- Includes hex nut, cam nut and cam
- Double punched 1-1/4" straight cam allows fitting at 3, 6, 9 or 12 o'clock position
- Available in 5/8" or 7/8" cylinder lengths

Part Number	Description
30-0325-00	5/8" Length Keyless Cam Lock
30-0324-00	7/8" Length Keyless Cam Lock

Minimum Lock Order Policy

For Cam Type or Inner Cylinder Locks
New keyed alike series: Minimum 25 locks
Reorders of keyed alike locks: Minimum 10 locks

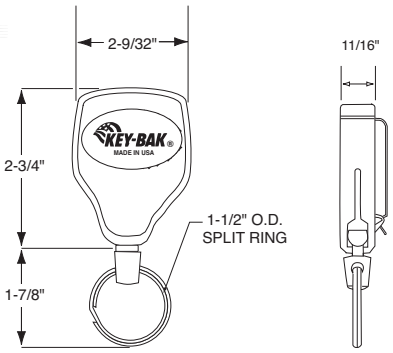
LOCK SPACER COLLARS

- Take-up rings for standard 3/4" diameter lock barrel
- Zinc plated steel
- 7 popular sizes

Part Number	Description
30-2002-00	1/8" Lock Spacer Collar
30-2004-00	1/16" Lock Spacer Collar
30-2005-00	3/32" Lock Spacer Collar
30-2006-00	1/4" Lock Spacer Collar
30-2008-00	3/8" Lock Spacer Collar
30-2009-00	7/16" Lock Spacer Collar
30-2010-00	1/2" Lock Spacer Collar

KEY-BAK SUPER 48 KEY REEL

- Polycarbonate high strength case
- Dust shield keeps interior clean
- Kevlar cable is stronger but lighter than chain and is smooth in action
- Clip/Loop attachment allows dual functionality
- Clip design similar to pistol holsters; meets penal “anti-snatch” rules
- Carries up to 5 times the weight of other retractors
- All black design, high-tech look
- Oversize split ring is standard for larger load
- Corrosion proof for long service life



Part Number	Description
30-0101-01	Super 48 Key Reel with Kevlar Cable
30-0101-002	Super 48 Key Reel with Steel Cable

KEY-BAK “SPINNER” KEY REEL

- Can be extended at any angle – a full 360-degree spin with virtually no wear on the chain or cable
- “Spinner” can be removed from its base and used simply as a key holder
- “Spinners” belt holder can accommodate most Nokia phones
- Clip-On style
- Available with 24” chain or 48” cable
- Color: attractive black metal case

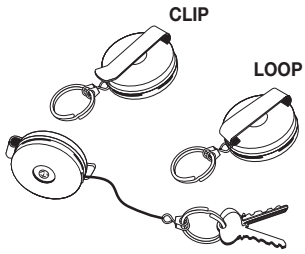
Part Number	Description
30-0101-05	“Spinner” Key Reel with 48” Cable

KEY-BAK SUPER 48 LE FOR SECURITY PROFESSIONALS

- For uniformed law enforcement professionals such as Sheriffs and Police
- Leather belt loop on back fits a standard 2.75” wide Sam Browne duty belt
- Polycarbonate high strength case
- Dust shield keeps interior clean and prolongs service life
- Extension member of stainless steel cable with tough nylon jacket or Kevlar cable available
- Loop design meets penal “anti-snatch” rules
- Carries up to 5 times the weight of other retractors
- All black design offers high-tech look
- Oversize split ring is standard for larger load
- Corrosion proof for long service life

Part Number	Description
30-0101-03	Key-Bak Super 48 LE with Stainless Steel Cable
30-0101-08	Key-Bak Super 48 LE with Kevlar Cable

KEY-BAK KEY REEL



Key-bak with chain

- Clips-On style or belt loop style
- Chrome case
- 24" stainless steel chain
- Swivels to prevent chain twisting

Key-bak with cable

- Rugged steel case is only 2” dia.
- 48” stainless steel cable with 95 lb. breaking strength
- Cable is 7 x 7 strand nylon jacketed construction
- Belt loop or Clip mount style available

Part Number	Description
30-1951-00	Clip on Style with Chain
30-0104-00	Belt Loop Style with Chain
30-0101-00	Clip on Style with Cable
30-0102-00	Belt Loop Style with Cable

RETRACT-A-BADGE ID CARDHOLDER

- Great for holding security ID cards
- Adds user friendly efficiency to High-tech security
- Steel clip on back allows for easy attachment without damage to clothing
- 30" retractable nylon cord easily allows badge to be extended and swiped without removing
- Construction: 1-3/16" diameter plastic case, steel clip, 30" nylon cord and vinyl snap-closure cardholder

Part Number	Description
30-0142-00	Retract-A-Badge (Black)

DELUXE MINI BAK ID CARDHOLDER

- Great for holding security ID badges
- Unique twist-free design prevents "spinning", so badge always faces front
- Patented design for extra security
- Clips on, will not damage clothing
- Strong metal swivel clip on back allows ease of use
- Tested to over 180,000 retractions; lasts four times longer
- Color: Dark Blue
- Made in the USA
- Construction: plastic case, steel clip, 36" nylon cord and vinyl strap with snap
- Size: 1-3/16" W x 1-3/8" H x 1/4"D

Part Number	Description
30-0145-01	Deluxe Mini-Bak ID Cardholder, Black

CHROME KEY RINGS

- Quality chrome finish
- Various sizes available

Part Number	I.D.
30-0094-00	1-1/8"
30-0099-00	1-1/2"
30-0100-00	1-3/4"

KEY-BAK MODEL 6 KEY REEL

New

- Mid size self retracting reel is less than 1-3/4" in diameter
- Perfect for about 6 keys or a 6 oz. tool
- Hold a flashlight, pocket knife, tool or any other small item you need to keep secure and ready for use
- Black polycarbonate high strength case
- Strong nylon cable extends 36"
- 360 degree rotating steel belt clip

Part Number	Description
30-0101-18	Key-Bak Model 6 Key Reel

KEY-BAK KEY REEL WITH LEATHER TOOL POUCH

- Heavy-duty tool pouch, keep tools & key handy
- Ideal for building maintenance staff
- Unit comes with the original "Key-Bak" key reel
- Precision made for years of trouble free use
- Uses standard 24" steel chain or standard 48" Kevlar cord
- Limited life time warranty on the mechanism

Part Number	Description
30-0101-12	Key-Bak Key Reel w/Leather Tool Pouch, Kevlar Version

KEY-BAK™ SECURIT® RETRACTOR

- Designed to keep keys, flashlights, small hand tools, etc. secure and handy
- All weather, all purpose retractor with tough Kevlar Cord (extends 48")
- 8 oz. Retraction force, tested in excess of 100,000 extension cycles
- Robust case fabricated of durable polycarbonate material
- Backed by a Lifetime Service Policy
- Custom versions available
- Made in the U.S.A.

Part Number	Description
30-0105-00	Key-Bak SecurIt Greer Reel Retractor

SECURE-A-KEY

- Eliminates wear and tear on pockets
- Keeps keys readily available
- Simply clip SECURE-A-KEY to your belt and snap key ring on
- Made of stainless steel, will not rust or discolor

Part Number	Description
30-0138-00	Secure-A-Key

KEY-BAK SLIDE BELT KEY CARRIER

- Ideal for slot techs, game room attendants, locksmiths, security personal
- Very secure belt loop style with key ring
- Handy and convenient
- Eliminates pocket wear

Part Number	Description
30-0095-10	Key-Bak Slide Belt Key Carrier

HEAVY DUTY CHOKER CHAINS

- 24" long
- 12 per master carton

Part Number	Description
30-0083-00	Heavy-Duty Choker Chains

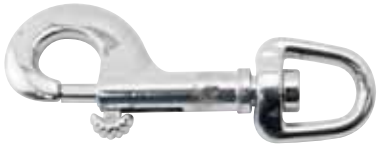
SASH CHAIN

- Great for key chains
- Trade size #25
- Sold per foot
- 100 ft. per box

Part Number	Description
30-0092-00	Blue Chrome

SNAP HOOK KEY RING

- Heavy-duty steel
- Chrome finish



Part Number	Description
30-0096-00	Snap Hook Key Ring

WRIST COIL WITH RING

- Superior quality coil always springs back, never loses its shape
- Fits comfortably on wrist
- 7/8" nickel plated tempered steel split ring
- Assorted colors: black, dark blue, teal, purple, red and white
- Coil measures 2" in diameter; stretches to more than 12" in diameter

Part Number	Description
30-0202-00	Wrist Coil with Ring

SNAP HOOK AND KEY RING WITH COIL

- Great for slot technicians or for use with player tracking cards
- Plastic snap hook easily hooks on belt loops or clothing
- Long 20" vinyl coated coil expands to approximately 5 times its size
- Metal key ring on end for keys or player tracking cards
- Color: Black

Part Number	Description
30-0099-01	Snap Hook and Key Ring with Coil

MAGLINER® SLOT MACHINE MOVER

- Great for slot machines, small equipment, supplies, etc.
- Large type H nose plate - cast magnesium, 14” wide, 12” deep, recessed heel
- **Retractable 4th Wheel** - Retractable 5” caster wheels support load in incline position. Folds flush against frame when not in use.
- Extra high 52” straight back frame
- Vertical loop handle
- 10” X 3.5” pneumatic tires
- Load capacity 500 lbs
- Model 115-H-1010-WA

MAGLINER® Route Distribution Solutions

Part Number	Description
33-1257-00	Magliner 52” Hand Truck with 4th Wheel Attachment
33-1357-00	Double Loop Handle extension (Extends Cart Height to 60”)

MAGLINER GEMINI JR. & SR. HANDTRUCKS

MAGLINER® Route Distribution Solutions

GEMINI® THE ORIGINAL CONVERTIBLE HAND TRUCK

- Lightweight, high strength aluminum construction, properly balanced to assure easier wheeling and positive load control.
- Big 10" full pneumatic tires provide smooth, easy rolling over all surfaces, indoor and outdoor
- 4 wheel truck for those large, bulky loads; easily converts to a 2 wheel cart for smaller stops
- In down position, an extra platform is provided for increased load capacity
- Extra wide, cast magnesium nose plate
- All parts are replaceable, no welding
- Heavy duty aluminum deck plate is a great addition so smaller packages don’t fall through when the truck is expanded to 4 wheels

Part Number	Description
33-1000-00*	Gemini Jr. with Full Pneumatic Tire
33-1001-00	Gemini Sr. with Full Pneumatic Tire
33-1281-00	Gemini Sr. with Care Free Tire

* Stair Climbers can not be used on Gemini Jr.

****This item is considered oversize and can only be shipped UPS oversize.**

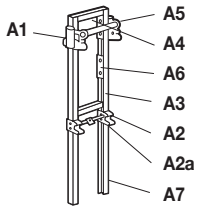
Gemini Jr.

Gemini Sr.

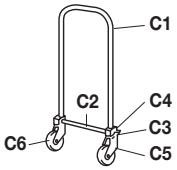
Specifications	Gemini Jr.	Thread
MAGLINER® Route Distribution Solutions	Cat. No HTGK 1834	Cat. No HTGK 9584
Overall width	21"	21"
Frame width	12”	12”
Height, as hand truck	51"	61"
Height, as platform truck	40"	45-1/8"
Platform bed length	38"	51"
Capacity, as hand truck	500 lbs.	500 lbs.
Capacity, as platform truck	1000 lbs.	1000 lbs.
Platform height from floor approx	10-1/2"	10-1/2"
Hand truck wheels	10 x 3.50	10 x 3.50 (full pneumatic or care free)
Casters – swivel	5" x 1-1/4"	5" x 1-1/4"
Nose casting	18" x 7-1/2"	18" x 7-1/2"
Shipping weight	44 lbs.	45 lbs.

GEMINI JR. & SR. HAND TRUCK REPLACEMENT PARTS

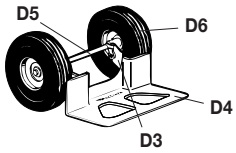
MAGLINER Route Distribution Solutions



Frame Assembly



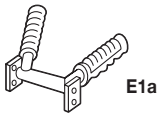
Handle with Casters Assembly



Nose/Wheel Components

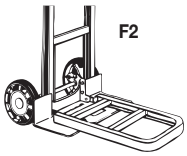
Item Number	Description	Part Number	Gemini Sr. Ref. #	Part Number	Gemini Jr. Ref. #
A1	Pivot Socket & Locknut	**33-1081-00**	302015	**33-1081-00**	302015
A2	Handle Latch & Lock Assy	**33-1082-00**	302016	**33-1082-00**	302016
A2a	Lock Pedal Only	**33-1083-00**	302043	**33-1083-00**	302043
A3	Frame Only with Cross Braces	**33-1084-00**	302055	**33-1098-00**	302059
A4	Upper Handle Assy. with Brackets	**33-1085-00**	302019	**33-1085-00**	302019
A5	Filler Block-Pivot/Frame (2 Required)	**33-1087-00**	302021	**33-1087-00**	302021
A6	Frame Spacer (4 Reqd. On Jr.,6 On Sr.)	**33-1088-00**	302090	**33-1088-00**	302090
A7	Frame Reinforcement - Lower	**33-1050-00**	302001	**33-1050-00**	302001
-	Handle with Casters Assy. Complete	**33-1089-00**	N.A.	**N.A.**	N.A.
C1	Handle Only	**33-1090-00****	301056	**N.A.**	N.A.
C1a	Handle with 2 Single Grips	**N.A.**	N.A.	**33-1100-00**	301059
-	Gemini Jr. Handle Assy	**N.A.**	N.A.	**33-1102-00**	301162
C2	Spreader Rod & Brackets Only	**33-1091-00**	301058	**33-1091-00**	301058
-	Snap Ring for Spreader Rod & Bracket	**33-1252-00**	221008	**33-1252-00**	221008
C3	Load Support Bolt & Locknut (2 Reqd.)	**33-1092-00**	301060	**33-1092-00**	301060
C4	Load Support Bolt Spacer (2 Reqd.)	**33-1093-00**	301061	**33-1093-00**	301061
C5	5" Caster Complete (2 Required)	**33-1073-00**	130010	**33-1073-00**	130010
-	5" Caster Brake	**33-1228-00**	51010	**33-1228-00**	51010
-	Right Hand Wheel Bracket Only	**33-1030-00**	210100	**33-1030-00**	210100
D3	Left Hand Wheel Bracket Only	**33-1031-00**	210101	**33-1031-00**	210101
D4	U' Magnesium Nose Plate	**33-1022-00**	300201	**33-1022-00**	300201
D5	Axle Kit #4025	**33-1042-00**	224025	**33-1042-00**	224025
D6	1025 Semi-Pneumatic Wheel Solid Tire	**33-1034-00**	111025	**33-1034-00**	111025
-	1060 Wheel, Full Pneumatic	**33-1354-00**	121060	**33-1354-00**	121060
-	1010 Care Free Tire	**33-1110-00**	131010	**33-1110-00**	131010

SHIPPED UPS OVERSIZE ****This item is considered oversize and can only be shipped UPS oversize.**



Gemini Sr.Handles

Gemini Jr. Handle



Item Number	Description	Part Number	Gemini Sr. Ref. #	Part Number	Gemini Jr. Ref. #
E1	'U' Style Handle	**33-1013-00**	301000	**N.A.**	N.A.
E1a	Double Handle with Grips	**33-1078-00**	301072	**N.A.**	N.A.
E1c	Single Handle with Grip	**N.A.**	N.A.	**33-1102-00**	301162
E1d	Handle Mounting Bracket	**33-1105-00**	302062	**N.A.**	N.A.
-	Nut for Handle Stop	**33-1254-00**	80674	**33-1254-00**	80674
-	Handle Stop	**33-1251-00**	302058	**N.A.**	N.A.
-	Screw for Handle Stop	**33-1253-00**	80167	**33-1253-00**	80167
-	Handle Bolt Pack (4) 1/4" X 1-3/4" Bolts	**33-1106-00**	80112	**N.A.**	N.A.
-	Nuts & Lockwashers (4) 1/4"	**33-1107-00**	301033	**N.A.**	N.A.
-	C1 Stair Climbers	**33-1047-00**	86027	**N.A.**	N.A.
-	C5 Stair Climbers	**33-1048-00**	86006	**N.A**	N.A
F2	20" Folding Nose (Channel)	**33-1056-00**	301025	**33-1056-00**	301025
F2	30" Folding Nose (Channel)	**33-1057-00**	301026	**33-1057-00**	301026

MAGLINER® HAND TRUCK HANDLE

- Trucks are 48" high

Part Number	Description	Ref. No.
33-1013-00	No. 11 Standard "U"	301000

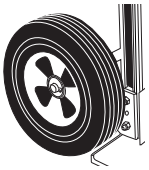
MAGLINER® HAND TRUCK FRAME

Part Number	Description	Ref. No.
33-1009-00	No. 1 Straight Back	300001

MAGLINER® HAND TRUCK WHEELS

No. 815

No. 1060



No. 825

No. 1025

Part Number	Description	Ref. No.
33-1032-00	No. 815 – 8"x 1-5/8" with ball bearings	10815
33-1034-00	No. 1025 – 10 x 2-1/2" with ball bearings Solid Tire, Puncture Resistant	111025
33-1354-00	No. 1060 – 10"x 3-1/2" with ball bearings Full Pneumatic	121060
33-1033-00	No. 825 - 8" x 2-1/2" with ball bearings	10825

MAGLINER® "CARE FREE" TIRE

- Maintenance free, will NEVER go flat!
- Micro-cellular polyurethane structure gives it an 'air cushioned' ride duplicating the feel and weight of pneumatic tires and the reliability of a solid tire.
- Improves productivity by eliminating tire related down time.
- Non marking 10" tire

Part Number	Description	Ref. No.
33-1110-00	"Care Free" Tire 10" x 3-1/2" with ball bearings	131010

MAGLINER® HAND TRUCK NOSE PLATES

Type "AM"

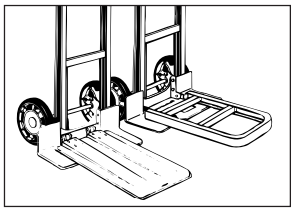
Type "UM"

Type "HM"

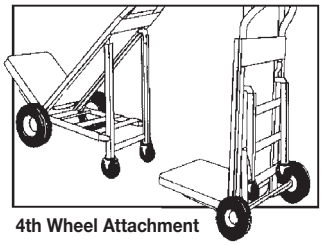
Part Number	Description	Ref. No.
33-1021-00	Type AM–Magnesium	300200
33-1022-00	Type UM–Magnesium	300201
33-1028-00	Type HM–Magnesium	300197
33-1030-00	Right hand axle and wheel mounting bracket Used with all nose plates; Magnesium construction	210100
33-1031-00	Left hand axle and wheel mounting bracket; Used with all nose plates; Magnesium construction	210101

*** Types C, D and J Require Mounting Bracket Kit, 33-1029-00**

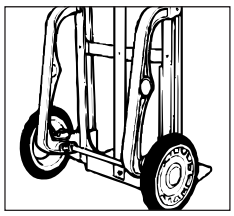
HAND TRUCK ACCESSORIES



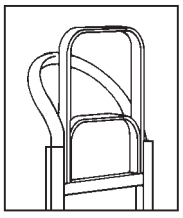
Folding Nose



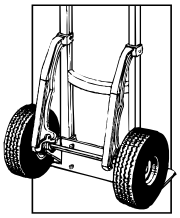
4th Wheel Attachment



Replaceable Skid Bar Glides



Frame Extensions



Stair Climbers

Part Number	Description	Ref. No.
33-1047-00	No. C1 Stair Climber Set, includes 1 right & 1 left side to a set plus mounting hardware Magnesium Construction	86027
33-1048-00	No. C5 Stair Climber Set, includes 1 right & 1 left side to a set plus mounting hardware Magnesium Construction	86006
33-1049-00	Wear Strip for No. C5 Stair Climber	302115
33-1050-00	Side channel reinforcement for frames; Two (2) required	302001
33-1051-00	W4 Retractable 4th wheel attachment	301050
33-1055-00	24" plate type folding nose extension	301019
33-1056-00	F2 20" extruded channel folding	301025
33-1057-00	F3 30" extruded channel folding nose extension*	301026

*** Will not fit J nose plates**

STEVENS SRT-M SERIES HAND TRUCKS

- The all-steel SRT-M series trucks will take the toughest punishment and handle the heaviest loads with ease. They come with advanced features such as the Ratchet Strap Tightener with automatic recoil and the patented Roller Bearing Crawlers
- The SRT-M series is a steel truck with a load capacity of 1,200 lbs.
- Retractable 3-1/2" rear swivel caster assembly to support the load during operation
- 8" x 2" Front roller bearing rubber tires
- Each truck has one 3-ply, 2 piece 14' strap
- Padded protective felt helps insure your equipment will not get scratched during transport

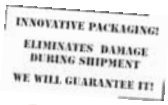
Stevens

Escort

Part Number	Description	Height	Weight
33-0000-00	SRT-M-66	66”	82 lbs
33-0004-00	SRT-M-72	72”	85 lbs

STEVENS VENDER SERIES HAND TRUCKS

- The Vender series is an all-steel hand truck uniquely designed to handle the largest machines
- Equipped with a retractable wheel assembly with large 10" x 2" rear wheels that supports the load and makes going over bumps and rough terrain much safer and easier
- 5" x 2" Front roller bearing rubber tires
- The Vender series has a load capacity of 1,750 lbs.
- Equipped with two 3-ply, 2 piece 14' strap with automatic strap recoil
- Padded protective felt helps insure your equipment will not get scratched during transport



Stevens

Escort

Part Number	Description	Height	Weight
33-0005-00	Vender 72	72”	116 lbs.

STEVENS PARTS AND ACCESSORIES

Stevens

RATCHETS				
SRT SERIES		VENDOR SERIES		
Part Number	Ref. No.	Part Number	Ref. No.	Description
33-1063-00	R-1B	-	-	-
33-1131-00	R-5	33-1131-00	R-5	Recoil Spring
33-1133-00	R-4	33-1133-00	R-4	Holding DOG Assy, with Hardware
WHEELS				
SRT SERIES		VENDOR SERIES		
Part Number	Ref. No.	Part Number	Ref. No.	Description
-	-	33-1203-00	W-21	10” x 2-1/2” x 1” Thermoplastic
33-1002-00	C-2	-	-	3-1/2” x 1-1/4” Swivel Caster
STRAPS				
SRT SERIES		VENDOR SERIES		
Part Number	Ref. No.	Part Number	Ref. No.	Description
33-1068-00	S-3	33-1068-00	S-3	Complete 14’ Two Piece

LECTRO TRUCK SLOT MACHINE MOVER

- Easily lift or lower slot machines with the touch of a button
- Optional fork plate for solid surface moving
- Compact electric truck vertically lifts loads of 750 lbs almost five feet high
- Front caster wheels standard
- Battery charger sold separately
- Construction: heavy-duty steel
- Battery: 12 volt
- Size: 67” H x 25” W x 34” D
- Weight: 130 lbs
- Capacity: 750 lbs
- Available with 6” x 2” rear wheels or 15” x 6” x 6” all-terrain pneumatic tires

Part Number	Description
33-1376-00	Slot Mover with 15”x6”x6” Rear Wheels
33-1375-00	Slot Mover with 6”x2”x6” Rear Wheels
33-1378-00	Battery Charger
33-1377-00	Fork Plate

WESCO SLOT MACHINE MOVER

- 3.5” diameter polyurethane ball bearing front swivel casters
- Ideal for raising, lowering and moving slot machines
- Easily raises slot machine from floor to slot stand or lowers it from slot stand to floor
- Foot operated hydraulic pump raises platform 54” high, foot release lowers platform
- Four-wheel dolly with front swivel casters
- Reduces risk of moving injuries
- Wheel locks standard
- 750 lb capacity
- Steel frame construction
- Lift height: 54”; overall height 60.5”; 22.5” wide
- Rear wheels 8”x2” with .75” ball bearings
- Weight: 162 lbs
- Extra large platform 22” D x 22” W sits 5.75” above floor

WESCO Industrial Products, Inc.

Part Number	Description
33-1259-00	Wesco Slot Machine Mover
33-1301-00	Wesco Slot Machine Mover without nose plate casters (Nose plate goes down to floor)

SUPERLITE FOLDING TRUCK

- Lightweight aluminum construction, weighs only 8.4 lbs.
- Easy pushbutton operation for quick set up
- Extended dimensions: 42” x 19” x 19”
- Folds to a compact 29.5” x 19” x 2” for easy transport and storage
- Superlite Folding Truck will fit into the smallest storage space or car trunk
- Noseplate: 19” wide x 12” deep
- Elastic straps for securing the load
- 7” x 1.5” non-marking, shock absorbing rubber tread wheels
- Suitable for technicians, arcades, routes, warehouse, office, and home
- Capacity: 175 lbs.

WESCO Industrial Products, Inc.

Part Number	Description
33-1244-00	Superlite Folding Truck

WESCO CONVERTIBLE TRUCK

New

- Extra large 12” pneumatic wheels handle most any terrain
- Wheel guards to protect soft packages
- 5” polyolefin casters
- Extra large 20” W x 7-1/2” deep nose plate
- Quick release latch for easy conversion
- Steel and aluminum construction
- Specifications:

2-Wheel Capacity	700 lbs
4-Wheel Capacity	800 lbs
Overall W x H	22-1/2” x 53”
Bed Size W x L	13-1/4” x 39”
Wheels	12” Pneumatic
Casters	5” x 1-1/4” Polyolefin
Weight	42-1/2 lbs

WESCO Industrial Products, Inc.

Part Number	Description
33-1496-00	Wesco Convertible Truck

DUTRO COLLAPSIBLE HAND TRUCK

- Compact and lightweight
- Retractable handle and 15" fold-up nose plate
- Easily fits in trunk or front seat of car
- Great for toting large sample cases or tool cases
- Single fingertip control lever will increase or decrease overall height
- Capacity: 400 lbs.
- Toe Plate: 5" x 12" x 3/16"
- Width: 16.5"
- Height: 26" to 41"
- Weight: 26 lbs.
- Wheel: 5" x 2"
- Axle: 5/8"
- Model 904

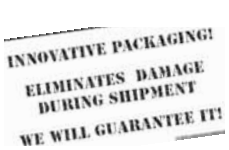
Dutro COMPANY

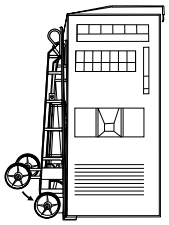
Part Number	Description
33-1197-00	72" Dutro "Brawny Brute" Hand Truck

72" DUTRO "BRAWNY BRUTE" HAND TRUCK

- Great for moving big heavy Can Drink machines
- "L-Shaped" ratchet arm makes leveraging large loads easy. Grabs the top front of the machine and pulls back
- Large rear wheels allow easy travel over rough terrain
- Safety brake allows you to rest load on incline
- Vertical frame is covered with a durable soft vinyl to protect your machine from scratches
- 1600 lb. load capacity

Dutro COMPANY

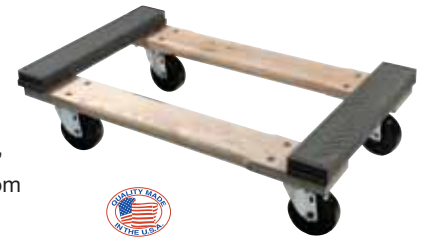




Part Number	Description
33-1167-00	72" Dutro "Brawny Brute" Hand Truck

DELUXE ALL-PURPOSE DOLLY

- Heavy duty 4" casters
- 18" wide x 30" long
- Hard rock maple
- 1000 lb. load capacity
- Weighs 21 lbs.
- Rubber covering "grips" and "protects" items from moving or scratching



Part Number	Description
33-1801-00	Deluxe All-Purpose 4 Wheel Dolly
33-1126-00	Replacement Rubber End Caps
33-1140-00	Replacement 4" Caster

HEAVY-DUTY RATCHET TIE-DOWN

- Hook and "D" ring ends
- 1" x 15' soft blue web will not scratch cargo
- 3,000 lb web capacity
- 2,000 lb assembly capacity
- Made in USA

Part Number	Description
33-1147-00	Heavy-Duty Ratchet Tie-Down, 2000 lb assembly capacity
33-1148-00	Ratchet Tie Down, 1200 lb assembly capacity

PROCART™ UTILITY CART

- The first “double-duty” utility cart
- Engineered to adapt to all the ways - and all the places you work
- Durable non-marking 5” wheels with locking rear wheels
- Each shelf holds a hefty 200 lbs.
- Quick assembly using a Phillips screwdriver
- Quickly flip the side gates up and it is a box top cart - use it to securely transport supplies
- Flip its side gates down and the ProCart™ is a flat top cart - perfect for sliding boxes on and off the shelves in the warehouse
- Optional rail system and bins transform it into a customized, portable work center
- Made of high density polyethylene structural foam which is dent resistant, rust-proof and never needs painting

AKRO-MILS

Part Number	Description
83-0098-00	Large ProCart™ - 45” L x 24” W x 32” H
83-0100-00	Small ProCart™ - 40” L x 19.5” W x 32” H

SERVICE CARTS

- High quality molded service and utility carts
- Available in two sizes with optional third shelf
- Heavy duty construction resists chips, dents and rust
- Push handle has compartments to accommodate a variety of tools, labels, small parts, etc.
- 550 lb. capacity
- Shipped KD, boxed and includes 5” non-marking casters

WESCO Industrial Products, Inc.

Part Number	Description
33-1497-00	30” x 16” 2-Shelf Service Cart
33-1499-00	36” x 24” 2-Shelf Service Cart

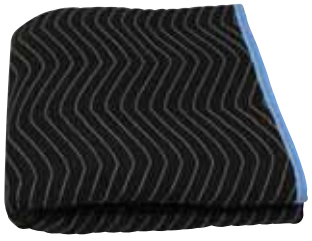
HI-JACK A-1 SIGN JACK LIFT

- Ideal for lifting large, heavy casino signs
- Allows one person to lift 500 lb. loads up to 10 ft. high
- Average lift speed of 500 lbs. is 3 ft. per minute
- 11-gauge tubular standards and sturdy platform
- Heaviest part weighs only 40 lbs.
- Assemble as erector set for any job condition or ceiling height up to 17 ft.
- Optional swivel casters permit movement in any direction
- Measures 24” L x 29” W x (add 22” to lifting height)

Part Number	Description
33-1339-00	Hi-Jack A-1 Sign Jack Lift
33-1343-00	Swivel Caster for Hi-Jack A-1 Lift (4 Required)

DELUXE MOVING PAD

- Heavy-duty all cotton pad
- Will not scratch equipment
- Quilted together by a 1” locking stitch in a lazy “S” pattern
- Double stitched binding for long life
- Size: 72” x 80”
- Color: blue / blue



Part Number	Description
33-1185-00	Deluxe Moving Pad

HEAVY DUTY PLASTIC COVER

- Extra large size fits all types of equipment: 51"(W) x 49"(D) x 85"(H)
- Strong and durable, but flexible for easy folding for storage to use again
- Easy to cut to fit your specific application
- Extra strong 3 mil plastic resists shredding from weather on the back of open trucks during transporting to and from locations

Part Number	Description
27-1047-00	3 mil Heavy Duty Plastic Cover

MULTI-PURPOSE SIGN JACK LIFT

- Each caster equipped with simple locking devices
- Tilt back option to move quickly over soft and/or uneven ground
- UL listed and OSHA accepted
- Portable material elevator can lift various types of loads
- Loads over 500 lbs. can be lifted with two or more units
- Ideal for lifting large, heavy casino signs
- Allows one person to lift 500 lb. loads up to 12 ft. high
- Can be converted to a 5, 8 or 9 ft. lift
- Four non-marking composition casters swivel to permit movement in any direction
- Measures 24” L x 29” W x (add 22” to lifting height)

Part Number	Description
33-1276-00	Sign Jack Lift with 5” Casters

CRAIN POWER CARPET STRETCHER

- Professional model
- Adjusting knob on top of power unit with a visual depth setting gauge – just set the dial to the desired pin depth and your ready to stretch
- Adjustable locking power head
- Auto-Lok tube allows you to adjust your stretcher poles in a flash
- Heavy-duty, blow-molded custom carrying case
- Weight: Stretcher without case is 36 lbs; Custom-carrying case is 11 lbs
- Speed roller tail block
- Adjusts from 35” to 22’
- Model 500

Part Number	Description
33-1291-00	Crain Power Carpet Stretcher

STRETCH-WRAP FILM & DISPENSER

FILM

- Ideal for use in storage or transportation of machines
- Protects shipments and reduces damage
- Premium blown film provides excellent puncture resistance for securing uniform or irregular loads
- Resists puncturing or tearing, even around sharp corners
- Superior cling keeps loads secure even in -5ºF
- Thick 80 gauge film
- 18" x 1500 ft., 3" core
- 4 rolls per case

DISPENSER

- High strength and high quality - built to last
- Adjusts to 12", 15" and 18" widths, 3" core
- Foam handle is angled to reduce fatigue
- Top tension control to keep stretch constant
- Weighs only 3-1/2 lbs

Part Number	Description
39-0036-00	Heavy Duty Stretch-Wrap Film
39-0037-00	Stretch Film Dispenser

COLLAPSIBLE BASKET

- Excellent protection for breakable items
- Open slots also allow for easy visual inspection
- 10 per case
- Extra strong stackable polypropylene basket is attractive and durable
- Open slots on every side makes this perfect for items that require ventilation
- Dimensions open: 10-3/4"(H) x 20-3/4"(L) x 13-1/4"(W)
- Dimensions closed: 2-2/3"(H) x 20-3/4"(L) x 13-1/4"(W)
- Folds and stores flat until needed. Then snaps open instantly to hold and store files, tote mail, office forms, ledgers, paper recycling bin, products around the office, on the road or throughout the plant

Part Number	Description
27-1038-00	Collapsible Basket - Blue
27-1044-00	Collapsible Basket - Red

BIN BOX

- Stock parts of a variety of sizes side by side
- Handy, economical way to stock parts
- 6"(W) x 12"(L) x 4-1/2"(H)
- Heavy duty, self-locking, white cardboard
- Mark the front of the box for quick parts identification

Part Number	Description
27-1056-00	Bin Box

REPAIR WORKBENCHES

LISTA making workspace work®

33-1415-00

- Durable, productivity-enhancing workbenches for repair of slot machines and other electronic devices
- Includes cabinet pedestal with 2 drawers contaning 8 preconfigured drawer compartments and 1 file drawer; Drawers have 150 lb. weight capacity. Cabinet comes with individual removeable core lock and 2 keys, and has a 6" base.
- Includes bullnose gray plastic laminate worksurface with backstop
- 30" D, 35.25" worksurface height
- Powder coated in Bright Blue paint
- Shipped 2-3 days of order
- Available in other colors and/or with ESD worksurface and paint with 4 week delivery

Part Number	Description
33-1415-00	60" W Repair Workbench
33-1416-00	72" W Repair Workbench

INSTRUMENT RISER SHELF FOR REPAIR BENCHES

LISTA making workspace work®

- Provides electricity and workshelf for above-worksurface use.
- Includes 15" D gray plastic laminate shelf with Bright Blue back stop
- Includes (2) 16" H shelf supports, one of which contains a 6-outlet power strip
- Shipped 2-3 days of order
- Available in other colors and/or with ESD worksurface and paint with 4 week delivery
- **Riser only; work bench not included**

Part Number	Description
33-1417-00	60" W, Riser Only

NEXUS ACCESSORY SYSTEM KIT FOR REPAIR WORKBENCHES

- Versatile system is ergonomically designed to deliver easy accessibility to parts, instruments and tools above the worksurface.
- No stretch or strain, reducing the risk of injury, increasing productivity
- Easily reconfigurable
- Allows for maximum use of worksurface by leaving full surface available for task
- Components can be easily adjusted for specific tasks within a workshift
- May be attached to QSTB40 or QSTB42 workbenches, or can be retrofitted to any existing workbench or worksurface
- Attaches to top of worksurface
- Powder coated in Bright Blue paint
- Shipped 2-3 days of order
- Available in other colors and/or with ESD worksurface and paint with 4 week delivery

LISTA making workspace work®

QSSMNX-60/2424 (for use with QSTB40 workbench)

- 48" W x 48" H above base: (2) 24" W sections
- (2) 24" W x 12" D adjustable shelves
  (1) 24" W x 15" D adjustable shelf
  (1) 24" W x 30" H markerboard/tackboard
  (1) 24" W x 18" H louvered panel
  (1) 24" W backstop
  (1) 15 amp vertical power strip with 6 outlets, off/on switch and 6' cord

QSSMNX-72/3030 (for use with QSTB42 workbench)

- 60" W x 48" H above base: (2) 30" W sections
- (2) 30" W x 12" D adjustable shelves
  (1) 30" W x 15" D adjustable shelf
  (1) 30" W x 30" H markerboard/tackboard
  (1) 30" W x 18" H louvered panel
  (1) 30" W backstop
  (1) 15 amp vertical power strip with 6 outlets, off/on switch and 6' cord

Part Number	Description
33-1419-00	For 60" W QSTB40 Workbench
33-1420-00	For 72" W QSTB42 Workbench

Example Systems shown

STORAGE CABINETS FOR REPAIR AREAS

- Shelf cabinets stacked on drawer cabinets enable users to store large bulky items above small parts and components.
- Provides maximum weight-bearing capacity, organization and access
- All cabinets come with individual lock and two keys. Lock cores can be exchanged in the field for both keyed-alike and master key systems.
- When drawers are closed, handles are flush with housing so nothing protrudes. Drawer handles are full width, and are located at top of drawer.
- All drawers are full extension with 440 lb. weight capacity
- PrevenTip® locking system – one-drawer-at-a-time feature prevents accidental tipping
- Cabinets include fork truck bases except as shown below
- Powder coated in Bright Blue paint
- Shipped 2-3 days of order
- Available in other colors with 4 week delivery

LISTA
making workspace work®

33-1422-00

33-1423-00

33-1421-00

Part Number	Description
33-1421-00	10-drawer drawer cabinet with 159 interior drawer compartments, 2-shelf cabinet with sliding doors 40.25" W x 22.5" D x 101.25" H
33-1422-00	10-drawer drawer cabinet with 159 interior drawer compartments, 1-shelf cabinet without door or base 40.25" W x 22.5" D x 93" H
33-1423-00	(1) 5-drawer drawer cabinet with 61 interior drawer compartments, (1) 9-drawer drawer cabinet with 154 interior drawer compartments, (1) 1-shelf cabinet with sliding doors 56.5" W x 28.5" D x 83.5" H

MOBILE STORAGE CABINETS FOR REPAIR AREAS

- Includes individual drawer latches and handles
- PrevenTip® locking system – one-drawer-at-a-time feature prevents accidental tipping
- Includes individual lock and 2 keys
- Includes 7 drawers
- Includes butcher block top
- 440 lb. drawer capacity
- Powder coated in Bright Blue paint
- Shipped 2-3 days of order
- Available in other colors with 4 week delivery

LISTA
making workspace work®

Part Number	Description
33-1424-00	28.25" W x 22.5" D x 41.5"H
33-1425-00	40.25" W x 22.5" D x 41.5"H

SUZO-HAPP QUALITY COAT SPRAY PAINT

- Featuring the patented EZ Touch® Fanspray® Nozzle giving the user better spray control with optimum coverage
- 15 minutes dries to touch
- For indoor/outdoor use
- Contains high amounts of solids for maximum coverage on wood and metal
- Lead and fluorocarbon free
- Professional results with the patented Fanspray® Nozzle
- Vertical or horizontal Fanspray® pattern allows easy spraying of all surfaces
- Net weight 11 oz.
- 12 cans per case

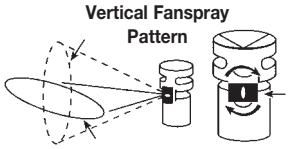
FLAMMABLE Ground Freight Only

SUZO HAPP

Part Number	Description
29-1011-00	Gloss Black
29-1012-00	Semi-Gloss Black

All Spray Paints use the EZ Touch® Fanspray® Nozzle.

(Except Spatter Paint)



Rotate valve nozzle 1/4 turn to change spray pattern

MINI RAZOR BLADE HOLDER & SCRAPER

- Blade easily snaps in and out
- Blade can be stored upside down for safety
- Holds blade securely for scraping jobs
- Includes one blade

Part Number	Description
49-5053-00	Mini Razor Blade Holder and Scraper

RAZOR BLADES

- Single edge
- Industrial quality
- Sold 100 per box

Part Number	Description
49-0926-00	Razor Blades

SPRAY PAINT, BY KRYLON

- Featuring the patented EZ Touch® Fanspray® Nozzle
- Dries to touch in approximately 15 minutes
- For professional and industrial use
- Interior/Exterior use
- Net wt. 12 oz.
- 12 per case

FLAMMABLE Ground Freight Only

Part Number	Description
29-1013-01	Semi-Flat Black
29-1013-02	Gloss Black
29-1013-03	Appliance White
29-1013-04	Flat Black
29-1015-00	Gray Primer

SILICONE SPRAY

- Clean, dry silicone spray, lubricates without spotting or odor
- Inhibits rust, repels water
- Can be used on foosball table rods
- Net wt. 20 oz.
- 12 per case
- NON food grade

Camie

Part Number	Description
29-1032-00	Silicone Spray

3M™ ELECTRONICS VACUUM

New

- Designed for high efficiency cleanup of most business equipment
- High efficiency filtration system
- Has EMI/RFI suppressor for reducing power line noise while working around other electronic equipment
- Replaceable one horse power motor provides maximum debris collection
- Includes 5 ESD/Current limiting attachments for hard to reach places (crevice nozzle, crevice brush, needle nose nozzle, dusting brush and tubular nozzle assembly)
- Vacuum is stored in high impact plastic carrying case
- Attachments and power cord are stored inside the cover and held in place with an internal door
- 3-Year limited warranty
- UL and CSA listed

3M

Part Number	Description
92-0522-00	3M™ Electronics Vacuum
29-0136-00	3M™ Type 2 filter for Dust/Toner

GAFFERS TAPE

- High tack tape with excellent adhesion
- Leaves no residue
- 2” X 60 yards
- Color: Black
- Great for Audio/Visual departments
- Also used for touch screen monitors
- Protects and anchors electrical wiring
- Seals out moisture and dust
- For wrapping or bundling wire, metals and plastics
- Heavy-duty vinyl coated waterproof cloth backing with excellent flexibility
- Matte finish reduces light reflection

Part Number	Description
39-0085-00	Gaffers Tape

DOUBLE FACE FOAM TAPE

- All purpose tape allows you to hang light objects or signs to games, walls, glass
- High strength adhesive on both sides
- 36 yards long

Part Number	Description
39-0013-00	3/4" Double Sided Foam Tape, White
39-0013-10	3/4” Double Sided Foam Tape, Black
39-0041-00	1/4" Double Sided Foam Tape, Black

DUCT TAPE

- Polyethylene coated cloth
- Used for holding down carpet
- 2" x 60 yards
- 24 per case

Part Number	Description
39-0019-00	Gray Duct Tape
39-0045-00	Red Duct Tape
39-0044-00	Black Duct Tape

3M™ ELECTRICAL TAPE

- 3M Scotch Super 33+ Vinyl Electrical Tape, the Industry Standard
- Now it’s more flexible, stronger and stickier than ever – especially in cold weather
- Highly conformable all-weather tape
- UL listed, CSA certified 0° C to 105° C
- Primary insulation for wire cable splices up to 600 V
- In handy hard plastic container
- 3/4" x 66' long

Part Number	Description
49-0902-00	3M Electrical Tape

PLASTIC ELECTRICAL TAPE

- Dielectric over 10,000 V
- UL listed
- 3/4” wide x 60 ft.
- Sold in packs of 10 only

Part Number	Description
39-0038-00	Electrical Tape - 10 Pack

3M™ CLEAR DOUBLE SIDED TAPE

- All purpose tape with excellent adhesion
- Easily adheres to metal, glass, formica and other hard surfaces

Part Number	Description
39-0039-0	3M Clear Double Sided Tape, 1/4" x 36 yds. Sold Per Roll
39-0040-00	3M Clear Double Sided Tape, 1/2" x 36 yds. Sold Per Roll

GLASS FILAMENT TAPE

- Ideal for heavy-duty packaging
- Strong adhesive backing
- 1" x 60 yards long

Part Number	Description
39-0007-00	Glass Filament Tape

MASKING TAPE

- Protect the areas you are not painting
- 60 yards long per roll
- Strong adhesive backing

Part Number	Description
39-0014-00	1" Masking Tape
39-0018-00	2" Masking Tape

DELUXE 2” TAPE DISPENSER

- Pistol grip style
- Engineered for long wear and ease of use
- Adjustable brake provides tape tension
- Holds up to 2” wide rolls on a 3” core

Part Number	Description
98-MTDGF103	Deluxe 2” Tape Dispenser

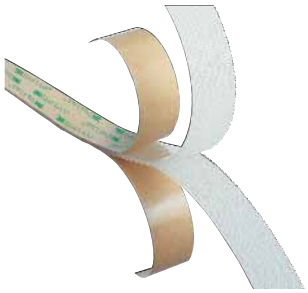
3M SCOTCH® BOX SEALING TAPE

- Edge tear and split resistant
- Strong 2.05 mil thickness
- Clear color
- 1-7/8” x 55 yards long per roll
- Strong adhesive backing
- Tensile strength: Machine direction 25 lbs. /inch width; Cross direction 40 lbs./inch width
- Adheres instantly to a variety of surfaces
- 6 rolls per box
- 6 boxes per case

Part Number	Description
39-0008-10	3M Scotch® Box Sealing Tape

3M DUAL LOCK™ LOW PROFILE RECLOSABLE FASTENER

- 75 ft per roll; sold by the foot
- 3 rolls per case
- Unlike some reclosable fasteners, this is self-mating so only one roll needed reducing inventory
- Light-weight, thin profile (0.067”, 1.7mm)
- Clear acrylic adhesive, -20°F to 150°F
- 1” wide, clear color
- Stemmed surfaces glide over each other for easy positioning prior to pressing and snapping together
- Pressure sensitive adhesive backing bonds to many surfaces
- Numerous interlocking mushroom-shaped stems positively “snap” together
- Uses include: Electronics, exhibits, trade shows, Point of Purchase, framing; anywhere you need easy access or quick assembly
- Minimum order 25ft



Part Number	Description
90-0015-00	3M Dual Lock™ Low Profile Reclosable Fastener

VELCRO HOOK & LOOP TAPE

- For fastening a wide variety of items
- Adhesive backing
- .75”, 1” or 2” wide tape
- Color: Black
- 25 yards. per roll
- Sold per roll

Part Number	Description
90-0003-03	.75” Velcro Loop Side Only
90-0004-03	.75” Velcro Hook Side Only
90-0003-01	1” Velcro Loop Side Only
90-0004-01	1” Velcro Hook Side Only
90-0003-02	2” Velcro Loop Side Only
90-0004-02	2” Velcro Hook Side Only

VELCRO ONE-WRAP CABLE TIES

- Hundreds of uses
- Ideal for cord and cable control
- Can be reused numerous times
- Size: .5” wide x 6” long
- Color: Black
- Minimum order 10

Part Number	Description
90-0011-00	Velcro One-Wrap Cable Ties

SUZO-HAPP DOLLAR BILL CLEANING CARD

- To clean, just insert like a dollar bill
- Works on all Gaming bill validators
- Greatly increases the acceptance of dollar bills by cleaning & maintaining the hard to reach insides of the bill validators
- Special cleaning solution will not harm rubber belts
- Cleans, lubricates and protects all in one easy motion
- Sold in boxes of 50

SUZO HAPP

Part Number	Description
29-1009-00	Suzo-Happ Dollar Bill Cleaning Card

"ALCOHOL FREE" CLEANING CARD

- Protect your equipment
- Works on all dollar bill validators
- Removes dirt, oil, and other contaminants from magnetic heads and photo and optic sensors
- Safe, easy and effective
- Will not harm rubber belts
- Will not fog up optic sensors
- Sold in boxes of 50

SUZO HAPP

Part Number	Description
29-1167-00	"Alcohol Free" Cleaning Card

SUZO-HAPP MAG STRIPE CLEANING CARD

- Helps performance and durability of your equipment
- Used regularly, they will save you time & money in equipment repairs & downtime
- Cleans dirt, oil and residue from magnetic, optical and bar code reading equipment
- Double-sided cleaning card cleans any way you swipe
- Works on ATMs, Hotel Door Locks, Video Vending Machines, Telephones, Gas Pump Credit Card Readers, and many more applications
- Sold in boxes of 50

SUZO HAPP

Part Number	Description
29-1009-30	Suzo-Happ Mag Stripe Reader Cleaning Card

SUZO-HAPP THERMAL PRINTER CLEANING CARD

- Improves print quality and legibility
- Protects your equipment - increases printer life, reliability and performance
- Works on all thermal printers
- Use before inserting each roll of paper
- Safely removes all dirt, ink, tape, residue, adhesive and other contaminants from thermal print heads, paper guides and paper path
- Sold in boxes of 25

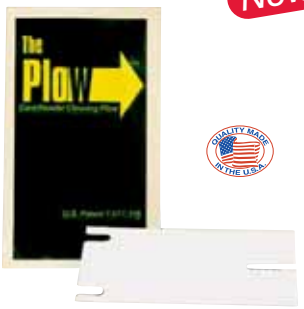
SUZO HAPP

Part Number	Description
29-0005-00	Suzo-Happ Thermal Printer Cleaning Card

THE PLOW™ CLEAN CARD

New

- Developed by a slot technician, the patented Plow™ cleaning card effectively cleans and pushes out the dirt
- Pre-saturated with a proven cleaning fluid that effectively cleans the concealed magnetic head
- Other cleaning cards simply pack the dirt in the back of the reader
- The Plow™, with its patented pre-cut slots and double sided cleaning surface, not only cleans the magnetic head, guides and rollers but it also completely clears dust and debris out the back of the reader
- Regular use ensures reduced down time and repairs and increased performance and customer satisfaction
- The Plow™ effectively cleans ATM and credit/debit card readers. POS and gas station readers
- Flammable, contains isopropyl alcohol
- Box of 25 cards
- Made in the USA



Part Number	Description
29-0407-00	The Plow Card Reader Cleaning Plow

THERMAL PRINTER CLEAN PENN™

- Specially designed to remove ink, dirt and contamination buildup on thermal print heads
- Allows printer to printer cleaner, clearer and crisper
- Just swipe CLEAN-PENN™ across entire printer head surface
- Use every time paper stock is changed

Part Number	Description
29-0003-00	Thermal Printer CLEAN-PENN™

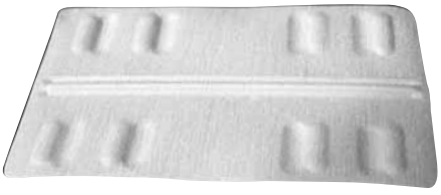
LUCKY STRIPE WAFFLETECHNOLOGY™ CLEANING CARD

- Now, only one cleaning card needed for all your bill validators
- Works in most bill validators; highest acceptance of any cleaning card
- Dramatically outperforms normal flat cleaning cards
- Incorporates flexible, raised platforms on the top and bottom surfaces
- Springs up into surface cavities to clean recessed sensors
- Cleans entire rounded surface of magnetic heads
- Effectively cleans leading and trailing surfaces of rounded optical lenses
- Ten times higher cleaning pressure, cleaning in both directions
- Color: white; alcohol-free
- Sold in boxes of 15
- For more information, go to: www.waffletechnology.com

Part Number	Description
29-0329-20	Lucky Stripe WaffleTechnology™ Cleaning Cards

WAFFLETECHNOLOGY CARD READER CLEANING CARD

New



- Cleans the entire surface of CR80 debit/credit card readers
- New and improved, .019 thick version
- Color: white; alcohol
- Sold in boxes of 40
- Dramatically outperforms normal flat cleaning cards
- "Wave Waffletechnology" design to gently but firmly roll along the magnetic heads
- Cleans the leading, top, and trailing edge of the magnetic head
- Reaches into the reader pathway where dirt builds up and migrates to the magnetic heads
- "Reinforcement Technology" designed o ensure stability of cleaning card
- For more information, go to: www.waffletechnology.com

Part Number	Description
29-0329-10	Waffletechnology™ Card Reader Cleaning Cards, .019 thick

WAFFLETECHNOLOGY™ JCM BILL VALIDATOR CLEANING SYSTEM

New

- A JCM authorized product recommended for use with Preventative Maintenance Program
- Specially designed to work with the UBA and WBA bill validate software
- Cleaning card is not counted as rejected currency when used with upgraded software
- The bill validator cleaning cycle can only be activated by inserting this cleaning card - No re-calibration is needed
- Discreet cleaning during normal business hours without the opening of equipment
- Incorporates flexible, raised platforms on top and bottom surfaces
- Springs up into surface cavities to clean recessed sensors
- Cleans interior currency pathways, lenses, belts and rollers, and magnetic read heads
- Color: white; alcohol-free
- Sold in boxes of 15
- For more information, visit www.jcmwaffletechnology.com

Part Number	Description
29-1207-00	Waffletechnology JCM Bill Validator Cleaning Card

EZ THERMAL PRINTER CLEANING CARD

EZ Thermal Printer CleaningCard
This PreSaturated, Disposable Thermal Printer Cleaning Card is designed to safely and effectively remove all dirt, ink, tape & adhesive residue, and other contaminants from thermal print heads, paper guides and paper path.
This Cleaning Card will improve printer quality and legibility. This will increase output, machine life, printer reliability and performance.
Recommended Usage
Use On
Thermal Ticket Printer

- Cleans direct/thermal transfer printers, ATB ticket printers, label printers, Point-of-Sale terminals, ID card and bar code printers
- Pre-saturated, disposable cleaning cards for thermal printers
- Improves printer quality and performance
- Safely and effectively removes all dirt, ink, tape and adhesive residue, and other contaminants from thermal print heads, paper guides and paper path
- 2-1/2" x 6" opaque; contains 99% isopropyl alcohol
- Sold in boxes of 25

Part Number	Description
29-0339-00	Thermal Printer Cleaning Cards, Box of 25

SUZO-HAPP GLASS CLEANER

- Best glass cleaner in the industry
- Fast & effective foam spray
- Non-streaking
- Non-ammoniated
- Safely used on glass, touchscreens, chrome, plastic, enamel & tile
- Large 20 oz. size
- 12 per case

SUZO HAPP

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-1018-00	Suzo-Happ Glass Cleaner

SUZO-HAPP ANTI-FOAM PLEXI-CLEAN

- Great on touch screens, CRT & video screens
- Formulated for plastic, glass, plexiglass, chrome, plastic mirrors, Formica
- Cleans and polishes
- Anti-static, anti-fog
- Removes dirt, grease, nicotine, and fingerprints
- Will not streak, smear, or scratch
- Excellent on video security camera lenses
- Fast drying, reduces glare
- Safe on the ozone
- 19 oz. aerosol
- 12 per case

SUZO HAPP

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-1175-10	Suzo-Happ Plexi-Clean Cleaner & Polisher

SUZO-HAPP VANDAL MARK REMOVER

- Excellent for removing graffiti
- Removes spray paint, crayon, scuff marks and most inks
- Safe for use on brick, steel, brass, vinyl and most other surfaces
- Net weight 16 oz.
- 12 per case

SUZO HAPP

FLAMMABLE Ground Freight Only

Part Number	Description
29-1016-00	Suzo-Happ Vandal Mark Remover

SUZO-HAPP ALL PURPOSE CLEANER

- Completely cleans all types of surfaces including: Formica, playfields, wood, metal and glass
- 18 oz. aerosol can makes cleaning easy, simply spray on and wipe off
- 12 per case

SUZO HAPP

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-1000-00	Suzo-Happ All-Purpose Cleaner

TERGO ULTRA FIBER MICRO CLEANING CLOTHS

Never Buy Cleaners And Chemicals Again – Just Wet, Wring, And Wipe

- An alternative way to clean with only ordinary tap water
- Great for slot machines, vending machines, video games, etc.
- Just dampen cloth with tap water only
- Wedge shaped Ultra Microfibers trap and remove dirt and dust particles
- Don't be fooled – this is ultra microfiber not microfiber – there is a difference
- Economical - eliminates the need for toxic cleaning chemicals, paper towels or sponges
- Lasts for years – can be machine washed over 600 times
- Picks up the smallest particles – proven to pick up bacteria
- Fiber Type: Ultra Microfiber
- Made in Sweden

TERGO ULTRA MICROFIBER GLASS CLEANING CLOTH

- Woven cloth designed for cleaning glass, plexi-glass, chrome, stainless steel and similar smooth surfaces
- Surfaces air-dry to a lint and streak- free shine leaving no residue
- Easily cleans away dirt, smoke film, fingerprints, and more
- Color: Blue
- Composition: 50% Polyester – 50% Polyamide
- Size: 12" x 12"

Part Number	Description
27-1428-00	Tergo Ultra Microfiber Glass Cleaning Cloth

INSTRUCTIONS FOR USE OF CLEANING CLOTHS

The Glass cloth works best just slightly dampened with water. Either sprinkle water on the entire cloth or wet half the cloth. In most cases there is no need to wipe the surface dry after the cloth has been used, as evaporation enables surfaces to air-dry to a lint and streak-free shine. You can also spray water directly on the surface to be cleaned and wipe with a dry cloth. (Note: if water marks appear, the cloth may have been too dirty or wet).

INSTRUCTIONS FOR CLEANING

To improve the lifespan of the Tergo cloths, it is necessary to wash them on a regular basis. For quick cleaning after use, simply hand wash in hot water, or use a very small amount of dish or laundry detergent. Do not use hand soap as it contains oil. Be sure to rinse well. Wash the cloths in the washing machine, when required, in hot water with your normal load. Either air or tumble-dry, up to 90 degrees. Do this when required or whenever the cloth looks soiled. Periodically boil the cloths in water for a few minutes on your stovetop. This disinfects and causes the fibers to swell releasing trapped grease and dirt. Tergo cloths can be machine washed over 600 times (lasting several years).

Important: The Tergo cloths should not be ironed, nor washed with conditioner/fabric softener or dryer softener sheets, as it would reduce the cloth's static electricity! (Boil the cloth to remove any residue, if fabric softener is used). Avoid washing in a load with terry towels, unless you put them in a mesh bag for delicates to prevent lint build up. The cloth should not be used with stainable materials such as paints and inks. It's best to use enviro-safe detergent if possible. DO NOT USE CHLORINE BLEACH or abrasive solutions for cleaning or washing. This will shorten the life span of the cloth.

TERGO ULTRA MICROFIBER MULTI-PURPOSE CLEANING CLOTH

- Knitted cloth with double sided loops for cleaning all types of surfaces
- Specially developed for removing heavy amounts of loose and ingrained dirt
- Use dry for dusting & polishing static electricity and the fine fibers contribute to the attraction of dust
- Use wet for general cleaning, heavily soiled, greasy or outdoor areas
- Color: yellow
- Composition: 80% Polyester – 20% Polyamide
- Size: 16" x 16"

Part Number	Description
27-0240-00	Tergo Ultra Microfiber Multi-Purpose Cloth

ULTRA MICROFIBER SCRUBBER SPONGE

Front & Back View

- Highly launder-able, you will never have to worry about bacteria growth as found on conventional sponges
- Perfect for use in bars, restaurants, hotels, bathrooms and kitchens
- Sponge is non-abrasive on all surfaces
- Machine washable
- Composition: 80% - Polyester 20% - 5% Polypropylene

Part Number	Description
27-0254-00	Ultra Microfiber Scrubber Sponge

EZ SCREEN WIPES

New

- Dual wet/dry anti-static solution wipes are ideal for all screens and monitors
- Great for LCD, CRT, PDs, laptop and plasma screens
- Has one wet wipe for cleaning and one dry wipe to remove remaining moisture and residue
- Will not scratch or leave a residue
- Sold in boxes of 25

Part Number	Description
29-0436-00	EZ Screen Wipes

WYPALL® L40 WIPERS

- Convenient, strong and reusable
- Unique Double Re-Crept base sheet technology to absorb liquids efficiently
- Low cost, high quality
- Virtually lint free
- Size: 11” W x 10.4” L
- Color: White
- 90 per box, 9 boxes per case
- Usage can be easily monitored with easy to use Pop-Up® Box
- Durable Pop-Up® box to protect from dirt and water
- Non-abrasive material, soft enough for use on face and hands

Part Number	Description
27-0105-00	Wypall® L40 Wipers

WILDCAT TR-60 TAPE REMOVER

- Safely removes tape & adhesive from most surfaces
- 16 oz. squeeze bottle
- New style bottle prevents evaporation
- 12 per case

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-1004-00	TR-60 Tape Remover

SANI-TUFF WATERLESS WIPES

- Great for cleaning machines or hands
- Pre-moistened with cleanser reduces trips to the sink
- Dual textured wiper removes a wide range of soil such as oil, grease, grime, paint, etc.
- 75 wipers packed in a portable plastic bucket
- Pleasant citrus odor
- Large 12” x 12” wiper
- Sold per bucket, 6 buckets per case

Part Number	Description
27-1387-00	Sani-Tuff Waterless Wipes

SIMPLE GREEN CLEANER

- Great all-purpose cleaner
- Non-toxic, biodegradable formula removes grease, grime and dirt on parts
- Safe to use cleaning hands
- Water-based concentrate can be used full strength for tough jobs, or dilute for easier jobs
- 1 gallon size, 6 per case

Part Number	Description
29-1037-00	Simple Green Cleaner

HEAVY DUTY ECONOMIZER TOWELS

- Strong and absorbent
- Great for cleaning machines!
- Large Size: 9.8” x 16.4”
- Non-abrasive material
- 120 wipers per box
- 6 boxes per case
- Color: white

Part Number	Description
27-1388-00	Heavy-Duty EconoMizer Towels

SCOT’S CITRUS CLEAN

- Dissolves tape, tar, gum, permanent marker, glue, grease and more
- Removes chewing gum, price stickers, lipstick, tape residue, crayon, oil, and more
- Water-based non-oily formula contains no petroleum distillates
- Great for use on video games, vending machines and slot machines
- Clean smelling citrus scent
- 8 fl. oz. bottle
- Packed 6 per case

Part Number	Description
29-0237-00	Scot’s Citrus Clean Remover

BAD AIR SPONGE

Not an Air Freshener but A True Odor Neutralizer!

- Great for coffee machines - eliminates foul odor from old coffee grounds
- Neutralizes odors such as cigarette and cigar smoke, cooking, garbage, decay, solvents, mildew, gasoline, etc.
- Used in areas such as vending machines, food prep areas, restrooms, casinos, hotel guestrooms, bars, warehouses, offices, storage areas,etc.
- USDA approved for food applications
- Works 3 ways - adsorbs, entraps and neutralizes odors
- Based on a patented formula the Bad Air Sponge is a solid, paste-gel containing activated charcoal
- A passive, safe product that simply evaporates when opened
- Non-toxic, non-flammable and environmentally safe
- 1 lb. canister

Part Number	Description
27-1450-00	Bad Air Sponge

SUZO-HAPP FELT CLEANER

New

- Specially formulated aerosol spray for Billiard Cloth and Gaming Tables
- Easily lifts stains out of felt
- Great for billiards and gaming tables
- 20 Fl. Oz

Part Number	Description
29-0349-00	Suzo-Happ Felt Cleaner

WILDCAT APC-30 FELT CLEANER

- Pool cloth cleaner; also great for Black-Jack, Craps & other games with felt cloth coverings
- Designed to lift chalk dust, light stains and soil from felt
- Gentle non-staining foam cleaner that lifts the soil to the surface and allows you to wipe the surface clean
- Heavy duty cleaner designed for dirty surfaces
- Also cleans metal, plastic, wood & painted surfaces
- No rinsing needed
- 18 oz. aerosol can, 12 cans per case

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-1001-00	Wildcat APC-30 Felt Cleane

FOREMOST WONDER CLEANER

- Commercial and industrial formulation for fast removal of soil from glass, enamel, and other hard surfaces, plus leather and plastic fabrics
- Easily and safely penetrates and dissolves smudge, film, scum, food smears, hair spray, bugs, finger marks and soils
- Makes glass sparkle like diamonds
- Brings out the full luster of painted or enamel surfaces
- There is no dulling film
- Great for slot machines, vending machines, arcade games, windows, Formica, counter tops
- Large 22.5 oz. aerosol can
- 12 per case

FLAMMABLE Ground Freight Only

Part Number	Description
2153ES	Foremost Wonder Cleaner

ISOPROPYL ALCOHOL

- Extremely pure alcohol
- Frequently recommended by manufacturers of tape drives
- Leaves no residue
- Non-aerosol
- Screw-top can
- 16 oz. can
- 12 cans per case

FLAMMABLE Ground Freight Only

Part Number	Description
29-1125-00	Isopropyl Alcohol

WILDCAT TOUCHDOWN CLEANER

- Video screen cleaner safely removes dirt, dust, fingerprints & smudges
- Safe to use on touch screens
- Leaves a clean protective coating to repel future grime
- Helps prevent scratches
- 16 oz. bottle
- New style bottle prevents evaporation
- 12 per case

Part Number	Description
29-1030-00	Wildcat Touchdown Cleaner

WILDCAT SUPER CONTACT CLEANER

- Non-conductive, Non-corrosive
- Can be used on any surface, will not harm any plastic or synthetics
- High purity content
- Fast evaporation
- Non-flammable
- 14 oz. aerosol can
- 12 per case
- Cleans all delicate instruments & equipment chassis

FLAMMABLE Ground Freight Only

Part Number	Description
29-1002-00	Wildcat Super Contact Cleaner

FLUX REMOVER & CLEANER

- Removes all types of organic flux
- Pinpoint applicator supplied
- Convenient, fast and ready to use
- Non-flammable
- 16 oz. can
- 12 cans per case

Part Number	Description
29-1134-00	Flux Remover and Cleaner

BUTANE GAS REFILL

- Premium grade butane
- For use with Portasol soldering tool and similar tools
- Contains no contaminants
- Will not clog valves or deactivate catalytic conversion materials
- Net Wt. 3 fl.oz.
- Can be shipped via ground only

FLAMMABLE Ground Freight Only

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-1055-00	Butane Gas Refillr

TECHSPRAY FLUX REMOVER G3™

- Designed specifically for removing R, RA, RMA and SA type flux residues after high temperature reflow.
- Can also be used as an all-purpose cleaner to remove light oils, silicones, waxes, greases and other similar contaminants
- Formulated to be a direct replacement for all defluxers containing HCFC-141b
- Non-ozone depleting
- Non-flammable
- Safe on most plastics
- Zero residue
- Rapid evaporation
- 16 oz. aerosol
- Tech Spray No. 1631-16S

TECHSPRAY

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-0207-00	Techspray Flux Remover G3™

TECHSPRAY TECHCLEAN SMT BLUE WIPES

- Specifically designed for general maintenance
- Lint free - particle free
- Extra absorbent to capture liquids
- Cellulose/polyester wipes with extra low particulate and chemical extractables
- Sold in packages of 300
- Towel size: 9” x 9”

TECHSPRAY

Part Number	Description
27-0038-00	Techspray TechClean SMT Blue Wipes

TECHSPRAY BLUE SHOWER G3™ CLEANER/DEGREASER

- Effective in cleaning electronic equipment, machinery, metal parts and other general cleaning applications
- Innovative blend designed for precision cleaning of polar and non-polar soils including hand and solder oils, greases, silicones, fluxes, etc.
- New patented technology is direct replacement for all cleaner/degreasers containing HCFC-141b
- Non-ozone depleting
- Non-flammable
- Safe on most plastics
- Zero residue
- Rapid evaporation
- 16 oz. aerosol
- Tech Spray No. 1630-16S

TECHSPRAY

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-0209-00	Techspray Blue Shower G3™ Cleaner/Degreaser

TECHSPRAY ENVI-RO-TECH DUSTER

- Exceptionally pure inert dusting gas
- Moisture free inert gas removes particles without the use of harmful solvents
- Removes microscopic contaminants, lint, dust, metallic oxide deposits and other soils
- Formulated with HFC-134a which has a zero ozone depletion factor
- Non-Flammable
- Odorless
- Zero Residue
- 10 ounce and 15 ounce aerosol available
- 12 per case

TECHSPRAY

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-0046-00	ENVI-RO-TECH Duster 10 oz.
29-0047-00	ENVI-RO-TECH Duster 15 oz.

TECHSPRAY CONTACT CLEANER G3™

- Precision blend designed for removing oils, greases, silicones, dirt and other grime from all types of switches, relays, contact pads and other electrical connections
- New patented technology is direct replacement for all contact cleaners containing HCFC-141b
- Non-ozone depleting
- Non-flammable
- Safe on most plastics
- Zero residue
- Rapid evaporation
- 16 oz. aerosol
- Tech Spray No. 1632-16S

TECHSPRAY

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-0208-00	Techspray Contact Cleaner G3™

TECHSPRAY ZERO CHARGE® SCREEN & KEYBOARD CLEANER

- Eliminates static charge from sensitive surfaces and provides long-term static protection
- For optical clarity and distortion free reading
- Removes hand oils, ink marks, dust, fingerprints, nicotine, syrup, carbon and other soils
- Safe on plastic, ceramics, glass, metal and elastomers
- Non-streaking
- Non-ozone depleting
- 50 pre-saturated packets per box; 10 boxes per case
- Sold in boxes of 50

TECHSPRAY

Part Number	Description
29-0059-00	Techspray Zero Charge® Screen and Keyboard Cleaner

ENVI-RO-TECH FREEZER

- HFC-134a based rapidly evaporating liquid that chills to -62˚F
- Used as a troubleshooting aid for electronic components
- Detects cold solder joints, printed circuit board cracks and oxidized junctions
- Will not harm the ozone
- Net wt. 10 oz., 12 per case

TECHSPRAY

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-1056-00	Envi-Ro-Tech Freezer

WD-40

- Lubricates – contains no additives that attract dust and dirt
- Cleans – gets under dirt, oil, grease & grime to clean the surface
- Displaces moisture and is a non-conductor of electricity
- Quickly eliminates moistureinduced short circuits
- Penetrates to loosen rust from metal
- Protects with corrosive resistant ingredients

WD-40

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-1041-08	WD-40, 8 oz. Aerosol Can, 12 per case
29-1043-00	WD-40, 16 oz. “Industrial Size” Aerosol Can,12 per case

DURA SHIELD CLEANER & POLISHER

- Removes dust, grease, fingerprints, smoke, etc.
- Safe to use on Plexiglass, Lexan, Lucite, polycarbonates, and other acrylic surfaces
- Excellent for TVs, VCRs, mirrors, stainless steel, windows, eye glasses, etc.
- Contains no harsh chemicals or abrasives
- Will not harm or dull factory protected finishes
- 16 oz spray bottle - 12 per case

Part Number	Description
29-1129-00	16 oz. Dura Shield Cleaner & Polish

PROMAGIC STAINLESS STEEL CLEANER

- Cleans, polishes and brightens stainless steel
- Polishes to a non-greasy invisible coating, resisting future dirt and fingerprints
- Almond scented
- 18 oz. spray can
- 12 per case

SHIPPED UPS GROUND OR TRUCK ONLY

Part Number	Description
29-1039-00	Promagic Stainless Steel Cleaner

SUZO-HAPP ENVIRO DUSTER

- A powerful blast of compressed air
- Use on electronics, optics and more
- Pinpoint blasting spray
- Non-toxic and odor free
- Non-flammable
- High purity – no residue
- Moisture free
- Non-ozone depleting
- 12 oz. can with built-in continuously variable trigger valve and extension nozzle
- 12 per case

SHIPPED UPS GROUND OR TRUCK ONLY

SUZO HAPP

Part Number	Description
29-1900-00	Suzo-Happ Enviro-Duster

TECHSPRAY PREP PADS

- Pre-saturated isopropyl alcohol packets
- 99.6% pure anhydrous isopropanol for general purpose cleaning
- Excellent for tape head cleaning, removal of fluxes, light oils, polar soils and white mineral residue
- Can be used as a thinner for most fluxes
- Non-ozone depleting
- Safe on plastics
- Zero residue
- Non-corrosive
- 50 pre-saturated packets per box; 10 boxes per case
- Sold in boxes of 50

FLAMMABLE

TECHSPRAY

Part Number	Description
29-0028-00	Techspray Prep Pads

TECHSPRAY TECH HOLD®

- General Purpose, single component, cyanoacrylate adhesive
- High strength, fast bonding and high impact holding
- Fast acting and durable bonding
- Meets or exceeds MIL-A-46050C Type II, Class 2
- 3 grams

TECHSPRAY

Part Number	Description
29-0195-00	Techspray Tech Hold®

ZOOM SPOUT OILER

- The finest all-purpose turbine oil uniquely packaged to reach those hard to get to areas
- Telescoping spout extends out of the bottle up to 14" long
- A must for every toolbox
- Withstands high temperatures
- Net wt. 4 fl. oz., 72 per case

Part Number	Description
29-1033-10	Zoom Spout Oiler

TUFOIL® LUBIT8®

- Light weight, pen size oiler dispenses 1 drop of oil at a time, when and where you want it
- Pocket clip makes it easy to carry all the time
- 1/4 fl. oz.

Part Number	Description
29-1036-00	Tufoil Lubit 8®

MR. ZIP® EXTRA FINE GRAPHITE

- Mr. Zip® Extra Fine Graphite
- Dry powder graphite is great for lubricating all surfaces including wood, metal, plastic & rubber
- .21 oz. tube (6 g)
- 12 per case

Part Number	Description
29-1010-00	Mr. Zip® Extra Fine Graphite

LUBRIPLATE

- This paste-like lubricant works great on gears, motors, engines
- Provides protection against friction, wear, heat, rust & corrosion

Part Number	Description
29-1023-00	Lubriplate 14 oz. can
29-1059-00	Lubriplate 1-3/4 oz. tube

ACID BRUSH

- 6" long
- 4 per card
- Sold each or by the card

Part Number	Description
89-0224-00	Acid Brush

PARTS CLEANING BRUSH

- Great for washing parts
- Wooden handle
- Nylon bristle
- 10" long

Part Number	Description
89-0221-00	Acid Brush

CONDENSOR FIN WISK BRUSH

- Clean the dirty fins in back of your machines

Part Number	Description
27-2026-00	Condensor Fin Whisk Brush

DOUBLE HEADED CLEANING SWABS

- Cotton tips swabs for general cleaning with alcohol, Freon TF, 1,1,1 Trichloroethene, etc.
- 6" long

Part Number	Description
92-0028-100	Double Headed Cleaning Swabs (bag of 100)
92-0028-10	Double Headed Cleaning Swabs (bag of 1000)

POLY & COTTON LINT FREE SWABS

- A special absorbent polyurethane swab
- Has a fine texture that is gentle enough to clean delicate surfaces
- Reusable if used with solvents such as TF solvent, alcohol, etc.
- Sold in packs of 30
- 6 packs per box
- 6" wooden handle

Part Number	Description
92-0023-00	Poly & Cotton Lint Free Swabs

BRASS WIRE BRUSH

- Wooden handle with brass bristles
- 7 3/4" long x 7/16"

Part Number	Description
89-0220-00	Brass Wire Brush

BRUSH

- Available in 1" width only

Part Number	Description
89-0223-00	1" Brush

TECHSPRAY TECHNICAL CLEANING BRUSH

- 4-1/2" plated steel handle
- 1/4" and 3/16" horse hair bristles
- Ref. No. 2032-1

TECHSPRAY™

Part Number	Description
89-0009-00	TechSpray Technical Cleaning Brush

3M™ SPRAY ADHESIVE

3M SPRAY ADHESIVE #74

- Quick tack in bonding most materials: cloth, wood, plastics and metal
- 23.25 fl. oz.

3M SPRAY ADHESIVE #76

- Longer tack time – bonding in 10 minutes for a single sprayed surface, 1 hour for two coated surfaces
- Adjustable spray allows varied widths to be sprayed, eliminates spraying of too much adhesive
- 23.5 fluid oz.

3M SPRAY ADHESIVE #77

- Will initially "grab" the material, but allows time to adjust before permanent bonding
- 23 fluid oz.

3M SPRAY ADHESIVE #90

- Exceptionally strong contact adhesive
- One minute dry time
- Adjustable spray tip allows varied widths to be sprayed
- Bonds decorative laminates wood, metal, plastics and many other materials
- 16.6 fluid oz.

#74 #76 #77 #90

3M SHIPPED UPS GROUND OR TRUCK ONLY

NOTE: #74, #76, #77 cannot be sold in the state of California

Part Number	Description
29-1006-00	3M Spray Adhesive #74, 12 per case
29-1007-00	3M Spray Adhesive #76, 12 per case
29-1008-00	3M Spray Adhesive #77, 12 per case
29-1069-00	3M Spray Adhesive #90, 12 per case

GOO GONE® PRO-POWER SPRAY GEL

- Stick with a winner that sticks
- Now in a spray gel that sticks where you spray
- New drip-free formula eliminates the mess
- Say "Goo-Bye" to sticky, gummy, greasy, gooey problems
- Safe to use on almost any surface
- Safe to breathe, natural orange scent
- Quickly eliminates: paint, adhesive, price stickers, decals, tape residue, chewing gum, oil and printer's ink
- Works great on vertical surfaces
- 14 oz. spray bottle, 12 per case

FLAMMABLE

Part Number	Description
29-0002-00	Goo Gone Pro Power Spray Gel

3M SCOTCHGRIP 10 CONTACT ADHESIVE

- Great solvent based adhesive
- Bonds to a wide variety of materials including many metals
- Fast drying - typically in 5 to 10 minutes
- Moisture resistant
- Sold in one quart cans (32 oz.)

SHIPPED UPS GROUND OR TRUCK ONLY 3M

Part Number	Description
29-1068-00	3M Scotchgrip 10 Contact Adhesive
89-0223-00	1" Brush

SUZO-HAPP SPRAY ADHESIVE

- Pressure sensitive adhesive
- Strong, instant tack
- 14 oz. can
- 12 per case

SHIPPED UPS GROUND OR TRUCK ONLY SUZO HAPP

NOTE: Cannot be sold in the state of California

Part Number	Description
29-1017-00	Suzo-Happ Spray Adhesive

ECLECTIC E-6000™ ADHESIVE SEALANT

- Silicone type texture that dispenses like caulk
- Aggressively grabs surface and holds; will stretch, but won't let go
- Great for sealing doors of machines
- Adheres to cement, metal, glass, tile, plastic, rubber, leather, wood & vinyl
- Waterproof/Non-flammable
- Net weight 3.7 fl. oz. tube
- 12 per case

Part Number	Description
29-1021-18	Eclectic E-6000™ Adhesive – Clear

ORIGINAL GOO GONE

- Nothing removes sticky, gummy, gooey, greasy spots and stains better
- It really works – anywhere, anytime, on practically anything!
- Removes stickers, grease, oil, gum, tar, crayon, tape, lipstick, etc.
- Safe to use on virtually any surface – clothing, carpets, upholstery, vinyl, metal, wood, tile, you-name-it
- Pleasant citrus odor
- 8 oz. liquid
- 12 per case

FLAMMABLE

Part Number	Description
29-1178-00	Original Goo Gone

INSTANT KRAZY GLUE

- No mixing, no mess
- One drop application
- Ideal for plastic, metal, rubber, glass and ceramic
- Net wt. .07 oz. (2 g)

Part Number	Description
29-1044-00	Instant Krazy Glue - All Purpose

KRAZY GLUE WITH PRECISION APPLICATOR

- No-clog applicator
- Easy seal hanger cap
- Advanced formula bonds faster than many ordinary super glues
- Larger 5 gram size
- Best for plastic, wood, ceramic, rubber, metal and glass
- Net Wt. 0.18 oz. (5g)

Part Number	Description
29-1185-00	Krazy Glue with Precision Applicator

LOCTITE 242® THREADLOCKER

- Locks threaded fasteners against vibration loosening
- Prevents leaks and rusting of threads
- Parts can be disassembled with hand tools
- Ideal for fasteners 1/4" to 3/4" (6 to 20 mm) in size
- O.E.M. specified as 242® Blue
- Net 0.08 fl. oz.

Part Number	Description
29-1146-00	Loctite 242® Threadlocker

CAUTION SAFETY TAPE

- Non-pressure sensitive vinyl barricade tape
- High visibility
- 3" W x 1000 ft.
- 8 per case

Part Number	Description
27-1224-00	Caution Safety Tape

PLASTIC SPRAY BOTTLE

- Trigger Release
- 24 oz. size

Part Number	Description
29-1122-00	Plastic Spray Bottle

KRAZY GLUE GEL

- Best for vertical applications
- Glues up, down and sideways
- Allows repositioning
- No-clog applicator
- Bonds porous surfaces
- Larger 4 gram size
- Best for plastic, leather, wood, ceramic, rubber, metal and pottery
- Net Wt. 0.14 oz. (4g)

Part Number	Description
29-1159-00	Krazy Glue Gel

BARGE CEMENT

- Great for recovering of pool tables
- Bonds clean, dry surfaces
- Bonds many times stronger than the strength of items being glued

Part Number	Description
29-1024-00	Barge Cement, 2 oz. Tube
29-1047-00	Barge Cement, Quart

DEVCON 5-MINUTE EPOXY

- Ideal for making quick repairs to metals, ceramics, wood and concrete
- Forms a clear strong bond in just 5 minutes and cures to full strength in less than one hour at room temperature
- 1 oz. size, 24 per case

Part Number	Description
29-1054-00	Devcon 5-Minute Epoxy

SUPER ADHESIVE

- Ethyl Cyanoacrylate Adhesive
- Forms strong, lasting bonds in seconds between either similar or dissimilar materials—metal, porcelain, plastic, glass, most rubbers, hardwoods, and other non-porous materials with smooth, close-fitting surfaces
- The bond resists softening at temperatures up to 320°F (160°C)
- Cures to a strength of 5000 psi
- Fills gaps to .003”
- Meets Mil. Spec. MIL-A-46050C Type I Class 2
- 1 fl. oz. [29 ml.] Bottle

Part Number	Description
29-0142-00	Super Adhesive

PLATT 6” DELUXE POLYPROPYLENE TOOL CASE

- Injection molded polyethylene shell
- Extruded aluminum frame with black trim
- Golf grip handle
- Cast chrome key locks and full length piano hinge
- Interior has two molded pallets and deluxe literature pocket
- 18” L x 13” W x 6” D
- Made in USA

platt

Part Number	Description
92-800T-CB	Platt 6” Deluxe Tool Case

CRESENT 170 PIECE TOOL SET

New

Crescent®

- Contains all the tools needed for most industrial applications, including 1/4", 3/8", and 1/2" quick-release ratcheting drives, with a wide selection of standard and deep sockets in the most common SAE and metric sizes
- Features 72-tooth ratchet drives for a 5° swing that’s perfect in tight spaces
- 3/8" drive 12-point sockets to increase fastener contact area for maximum torque
- Durable storage cases have raised-letter ID for each tool location, so they’ll stay organized, plus tools lock securely in place
- These tools meet stringent new ANSI and ASME specifications
- Ratcheting drives and sockets are chrome Vanadium for maximum strength
- Pliers are made of chrome nickel alloy steel providing rust resistance and strength with hardened cutting edge for durability
- Wrenches heat-treated for maximum strength with chrome plated finish
- All tools in this set meet stringent new ANSI and ASME specifications
- Set Includes:

(3) Drivers (1/4", 3/8", 1/2")
(4) Extenders,
(1) 3/8" TO 1/4" DRIVE ADAPTER
(22) 1/4" Sockets
(12) Deep/24 Sockets) 3/8" Sockets
(10) 1/2" Sockets
(2) Spark Plug Sockets 5/8 & 13/16
(1) 8" Adjustable
(1) 10" T&G
(1) 8" Long Nose Pliers
(1) Magnetic Bit Driver and
(40) Bits
(4) plastic holders
(4) Mag Screwdrivers
(24) Hex Keys (SAE/Metric)
(2) plastic holders
(12) Combination wrenches (5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 8MM, 10MM, 12MM, 13MM, 14MM, 15MM)

Part Number	Description
92-2742-00	Crescent 170 Piece Tool Set

XCELITE® SERIES 99® 23-PIECE ROLL KIT

- Versatile 23-piece set of quality tools
- Provides a variety of quick change tools and tool combinations to speed up assembly and service work
- All Blades are high quality steel, hardened and tempered for optimum performance
- Plastic handles have patented spring device that holds blades firmly, yet permits quick, easy insertion and removal
- Regular handles accommodate all blades, single and reversible
- Stubby, Tee and Ratchet handles used only with single-end blades
- Xcelite Ref# 99SM
- Durable roll-up plastic coated canvas case

Xcelite

Kit Includes:

(1) 5” Diagonal cushion grip pliers
(1) 6” Long nose cushion grip pliers
(1) 8” Cushion grip adjustable wrench
(1) Nut driver handle
(1) Stubby handle
(9) Nutdrivers
(3) Stubby nutdrivers
(2) Phillips screwdrivers
(2) Slotted screwdrivers
(1) Reamer
(1) Extension tool

Part Number	Description
92-1009-00	Xcelite® Series 99® 23-Piece Roll Kit

GATOR GRIP® UNIVERSAL SOCKET KIT

The amazing Gator Grip® makes half of your toolbox obsolete! This one socket fits fasteners of almost any shape. No longer waste time searching for socket after socket, when one socket can do the work of a whole set. The Gator Grip won’t slip off nuts or strip them.

Save time and hassles, get the job done fast!

AS SEEN ON TV

GATOR-GRIP UNIVERSAL SOCKET

- Instantly fits over 1000 fasteners
- Always the right size socket
- One socket for both standard & metric
- Removes rusted & damaged nuts & bolts
- Unique round design won’t damage fasteners
- Pins instantly adjust to grip any shape, no adjustments needed
- Even fits screw eyes, hooks, wing nuts and square nuts
- Superior grip, each hardened steel pin features it’s own spring to provide a precision fit
- Save time and effort
- 1 year manufacturer warranty

Kit Includes:

(1) Gator Grip® Universal Socket, Fits 1/4” - 3/8” & 7mm - 19mm
(1) 3/8” Drive Reversible Ratchet Wrench
(1) High Speed Drill Adapter

Part Number	Description
92-0305-00	Gator Grip® Universal Socket Kit

PROFESSIONAL ELECTRONIC TOOL KIT

- 13 Assorted screwdrivers
- 6 Assorted precision screwdrivers
- Brush
- Mini-drill set
- Utility knife
- IC extractor
- Vice
- Electrical tape
- Flashlight
- Anti-static strap
- Assorted pliers
- Digital multimeter
- Solder
- 6” stainless scissors
- Folding hex wrench
- 8” lineman’s pliers
- 6” tweezers
- Mini-vacuum cleaner
- Desoldering pump
- 6” adjustable wrench
- All-in-one crimper
- Soldering iron & stand
- Voltage test screwdriver
- Components box
- 5 pc. file set
- Removable pallets
- 10 pc. mini-wrench set
- Tool carrying case

Part Number	Description
92-0345-00	Professional Electronic Tool Kit

39 PIECE DURA-DRIVER RATCHET DRIVER MECHANICS KIT

- Hidden interchangeable bit storage keeps bits handy and secure
- 3 position High Torque Ratchet
- No slip grip stops slippage for higher torque
- S2 Industrial Steel bits resist wear and breakage
- Chrome Vanadium socket with true fit hex design, prevent rounding and stripping of nuts and bolts
- Ergonomic handle
- Crescent ref. no. SDMBR1

Crescent®

Kit Includes:

Dura-Driver Ratchet Screwdriver with 3 positions

9 Fractional sockets: 3/16”, 7/32”, 1/4”, 9/32”, 5/16”, 11/32”, 3/8”, 7/16”, 1/2”

9 Metric Sockets: 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm,

18 Screwdriver Bits: #1 Phillips, #2 Phillips, #3 Phillips, 3/16” Slotted, 5/32” Slotted, 1/4” Slotted, #1 Square Recess, #2 Square Recess, #3 Square Recess, #10 Torx, #15 Torx, #20 Torx, #25 Torx, #30 Torx, #40 Torx, 5/32” Hex, 3/16” Hex, 1/4” Hex

2 Socket Adapters: 1”, 2”

Part Number	Description
92-0358-00	39 Piece Dura-Driver Ratchet Driver

57-BITS SCREWDRIVER SET CHROME-VANADIUM

- Ideal for repairs and projects, all bits in chrome-vanadium
- Set Includes:

Cross Bits: PH0, PH1, PH2, PH3

Pozzi Bits: PZ0, PZ1, PZ2, PZ3

Fractional Flat Bits: 1/8, 5/32, 3/16, 1/4, 9/32

Metric Hex Bits: H2, H2.5, H3, H4, H5, H5.5, H6

Fractional Hex Bits: H1/16, H5/64, H3/32, H1/8, H5/32, H3/16, H1/4

Square Bits: S0, S1, S2, S3

‘Star’ Bits: T10, T15, T20, T25, T27, T30, T40

Metric Flat Bits: 2 x 3, 2 x 4, 2 x 5, 2 x 6, 2 x 7mm

Sockets: 3/16, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 15/32, 1/2 + adapter

Holder for bits on both sides, 1 x hooked

Part Number	Description
92-2347-00	57-Bits Screwdriver Set, Chrome-Vanadium

40-PIECE ECONOMY SOCKET SET

- Drop forged, chrome plated carbon steel construction
- Quick-reversing ratchet handle
- Knurled pattern on ratchet handle for non-slip grip
- Spring loaded ball bearings lock sockets on to drivers
- Tapered 6-point sockets for easy access to nuts and bolts
- Set Includes:

12pcs 1/4” Drive 6-point sockets (SAE): 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32 & 1/2”

12pcs 1/4” Drive 6-point sockets (Metric): 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, & 13mm

3pcs 1/4” Drive 8-point sockets (SAE): 1/4, 5/16 & 3/8”

3pcs 3/8” Drive 6-point sockets (SAE): 7/16, 1/2 & 5/8”

3pcs 3/8” Drive 6-point sockets (Metric): 12, 14 & 16mm

1pc 3/8” Dr. x 8” ratchet handle

1pc 3/8” Dr. x 3” extension handle

1pc 1/4” Dr. (m) x 3/8” Dr. (F) adapter

1pcs 1/4” Dr. x 6” spinner handle

1pc 3/8” Dr. x 5/8” spark plug socket

1pc 3/8” Dr. speed disk

1 storage case

Part Number	Description
92-0109-00	40-Piece Economy Socket Set

CAT 5 CABLE JACKET STRIPPER

- Designed for Cat 5/5E cables only
- Will not knick inner conductors
- Long life blade
- Length: 3.5”, weight: 23 grams
- Durable high impact plastic housing
- Easy to use, no adjustments necessary
- Molded from yellow plastic to make it easier to find. No more lost tools!

Part Number	Description
92-0613-00	Cat 5 Cable Jacket Stripper

MIDGET SLIP JOINT PLIERS

- Miniature pliers with narrow jaws
- 3-jaw opening adjustment to 1/2"
- Red plastic-coated cushion grip
- 5" overall length
- Ref. No. 50CGV

Xcelite

Part Number	Description
92-0093-00	Midget Slip Joint Pliers

ADJUSTABLE WRENCH

- Rugged construction
- Quick, one-hand adjustment
- Chrome plated, polished heads
- Red cushion grip handle
- 4” overall length

Xcelite

Part Number	Ref. No.	Description
92-0311-00	44CGV	4” Adjustable Wrench

CRIMPING/WIRE STRIPPER/ BOLT CUTTING TOOL

- Ideal for prototype work, small production volumes and repair jobs
- Clean cutting wire cutter
- Wire Stripper for 10,12, 14, 16, 18, and 20 gauge wire
- Bolt Cutter for 8-32, 10-24,10-32, 6-32, and 4-40 threads
- Crimping tool for .062” & .093” pins (terminals)

Part Number	Description
11-03-0004	Handling Crimping/Wire Stripper

SARGEANTS CRIMPING TOOL

- For crimping comparitor JST terminals, Molex pins and .100 & .156 center edge connectors
- Ref. No. 1028CT

Part Number	Description
92-0032-00	Crimping Tool

ELECTRICAL PLIERS

- Wire cutting and stripping edges located in front of pivot for use in tight places
- Needle nose pliers add wire pulling and bending capabilities
- Scissors-action stripper insulated for cleaner, faster, more accurate stripping
- Serrated edge
- Red cushion grip handle
- 6" overall length
- Ref. No. 105CGV

Xcelite

Part Number	Description
92-0082-00	Electrical Pliers

ELECTRONIC SHEAR

- Low profile, general purpose cutter
- Superior blade by-pass shear cutting action
- Better cuts with half the effort
- Greatly reduced mechanical shock delivered to the work
- Light blue grips; 5" overall length
- Ref. No. 170M

Xcelite

Part Number	Description
92-0087-00	Electronic Shear

SLIM LINE TAPERED HEAD CUTTER

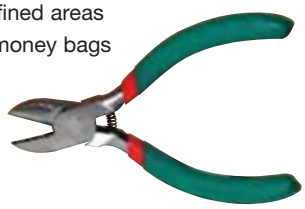
- Slim line tapered head
- Diagonal cutting pliers
- Flush cutting
- Blue puffy grips
- 4" overall length
- Ref. No. MS54-5J

Xcelite

Part Number	Description
92-0121-00	Slim Line Tapered Head Cutter

5” NARROW DIAGONAL CUTTING PLIERS

- Narrow jaws work easily in confined areas
- Great for cutting cable ties on money bags
- Useful for all general purpose electric and electronic work
- Induction hardened cutting edges
- Overall length: 5”



Part Number	Description
92-0336-00	5” Narrow Diagonal Cutting Pliers

SUBMINIATURE NEEDLE NOSE PLIERS

- Positive gripping of fine wire or subminiature components
- Serrated jaws
- Fine point allows use in confined areas
- Green cushion grips
- 4" overall length
- Ref. No. L4-V

Xcelite

Part Number	Description
92-0089-00	Subminiature Needle Nose Pliers

LONG NEEDLE NOSE PLIERS WITH SIDE CUTTERS

- For firm gripping and looping of wire
- 6" overall length
- Ref. No. 51CGV
- Serrated jaw
- Forged alloy steel construction
- Available with or without side cutters for cutting 20 gauge soft copper wire
- Red plastic-coated cushion grip

Xcelite

Part Number	Description
92-0208-00	Long Nose Pliers with Side Cutters

LAMP EXTRACTOR TOOL

- Used to remove or insert minature lamps with bayonet –type bases
- Firmly and gently grasp lamps from panels and switchboards
- Includes return spring for fast lamp insertion and removal
- Grasp limited to 5/16” to prevent shorts
- Tool size: 4”

Part Number	Description
92-1763-00	Lamp Extractor Tool

LAMP REMOVAL TOOL

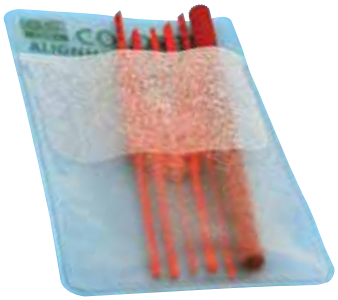
New

- Specifically designed to remove and install T-1 ¾ wedge base lamps from poker/ VLT style buttons without removing the lampholder assembly
- Replace lamps quickly and easily from the top
- Contains a built-in lens cap removal blade under pocket-clip cap
- Compact size – only 5.2” long
- All metal construction for durability
- Great for lamp replacements in the field

Part Number	Description
92-10586-00	Lamp Removal Tool

UNIVERSAL COLOR TV ALIGNMENT KIT

- 5 different alignment tools for all standard adjustments
- All tools are made of Delrin in various colors for easy identification
- Included is the “Extend-it” to make long reach alignors out of each tool
- Kit Includes 1 each:
  - “Extend-it” shaft extension
  - Hex iron core tool
  - Hex core tool
  - Double end tool
  - Zenith alignment tool
  - 5" Hex wrench



Part Number	Description
92-0196-00	Universal Color TV Alignment Tool Kit

LEATHERMAN WAVE TOOL

- Includes:
  Needlenose Pliers, Regular Pliers, Wire Cutters, Hard-Wire Cutters, Clip-Point Knife, Serrated Knife, Saw, Scissors, Wood/Metal File, Diamond-Coated File, Large Bit Driver, Small Bit Driver, Large Screwdriver, Ruler (8 inch/19 cm), Bottle/Can Opener, Wire Stripper, Lanyard Attachment, and Two Double-Ended Bits.
- Included Screw Bits: Phillips and flat tip eyeglass screwdriver and Phillips #1-2 and screwdriver 3/16”
- 100% stainless steel (Optimum grade hardness for each tool/blade)
- Length: 4 in. / 10 cm closed - 6.3 in / 16 cm open
- Weight: 8.5 ounces / 241 grams

Part Number	Description
92-2010-00	Leatherman Wave Tool

3M™ ELECTRONICS VACUUM

New

- Designed for high efficiency cleanup of most business equipment
- High efficiency filtration system
- Replaceable one horse power motor provides maximum debris collection
- Includes 5 attachments for hard to reach places (crevice nozzle, crevice brush, needle nose nozzle, dusting brush and tubular nozzle assembly)
- Vacuum is stored in high impact plastic carrying case

- Attachments and power cord are stored inside the cover and held in place with an internal door
- 3-Year limited warranty
- UL and CSA listed

Part Number	Description
92-0522-00	3M™ Electronics Vacuum
29-0136-00	3M™ Type 2 Filter for dust/toner

MOLEX PIN EXTRACTOR TOOLS

- Spring-loaded tool to allow easy removal of Molex pins from connector
- A must for every toolbox
- For servicing of Molex connectors

11-03-0003 11-03-0006 92-0039-00

Part Number	Molex Ref. No.	Description
11-03-0006	11-03-0006	Molex Extractor Tool for .093" Pins
11-03-0002	11-03-0002	Molex Extractor Tool for .062" Pins
11-03-0003	11-03-0003	Molex Extractor Tool for .156" Pins
92-0039-00	11-03-0044	Molex Extractor Tool for .165" Pins

40 PIN GROUNDED DIP EXTRACTOR

- Instant and accurate extraction
- Simply place the tool on the socket and depress the plunger
- Conductive finish with ground strap connection point

Part Number	Description
92-0253-00	40 Pin Grounded Dip Extractor

SEIZERS

- Versatile tool with unusual holding qualities
- Clamps firmly to hold wires for soldering
- Acts as a heat sink and retrieves small parts from hard-to-reach places
- Precision-machined from perfectly tempered stainless steel
- Box-joint construction
- 3-position snap lock
- Serrated jaws
- 6" long

Xcelite

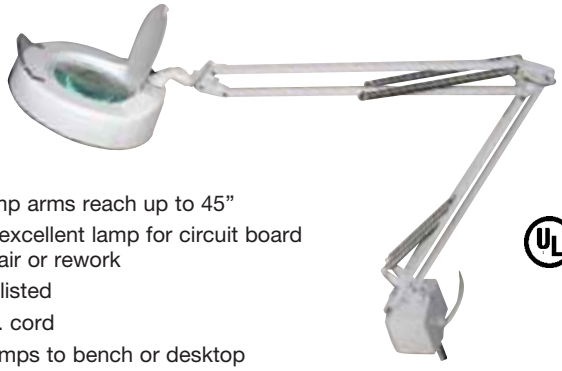
Part Number	Ref. No.	Description
92-0090-00	42HV	Straight Nose Seizer
92-0091-00	43HV	Curved Nose Seizer

THIRD HAND WITH MAGNIFIER

- Magnifying glass for close work
- Works at any angle
- When two hands are not enough
- Diopter 2.5
- Size: 4.9" x 2.2" x 7.7"

Part Number	Description
92-0042-00	Third Hand with Magnifier

MAGNIFYING FLUORESCENT WORK LAMP



- Lamp arms reach up to 45"
- An excellent lamp for circuit board repair or rework
- UL listed
- 5 ft. cord
- Clamps to bench or desktop
- Heavy duty for years of use
- 3x Magnifier lens for easy viewing
- Spring-balanced arm positions light where it's needed
- 22 watt circular fluorescent lamp supplies shadow free light

Part Number	Description
91-0202-00	Magnifying Fluorescent Work Lamp

TWEEZERS

- Premium stainless steel tweezers
- Precision quality-made in the USA
- Made from anti-magnetic, anti-acid stainless steel
- For electronic and fine assembly work

92-0150-00

Xcelite

Part Number	Ref. No.	Description
92-0150-00	XSST-4	Fine Taper Point Tweezers

I.C. EXTRACTION TOOL

- For easy removal of integrated circuits

Part Number	Description
92-0022-00	I.C. Extraction Tool

7-PIECE NUT DRIVER SET

- Convenient blow molded case for wall mounting
- Color-coded handles
- 7-1/4" overall length
- Ref. No. 147TB

Xcelite

Color	Hex Size
Red	1/4"
Orange	9/32"
Amber	5/16"
Green	11/32"
Blue	3/8"
Brown	7/16"
Red	1/2"

Part Number	Description
92-0077-00	7-Piece Nutdriver Set

11-PIECE NUT DRIVER SET

- Handles more jobs with fewer tools, saves bench space and lightens service kit
- Equipped with remarkable black, "piggyback" torque amplifier handle
- Set housed in attractive clear plastic case
- Color-coded handles
- Ref. No. PS-120 - Inches
- Ref. No. PS-121mm - Metric

Xcelite

Color	Inch Size	Metric Size
Blue	3/32"	3mm
Red	1/8"	3.5mm
Amber	5/32"	4mm
Black	3/16"	4.5mm
Brown	7/32"	5mm
Red	1/4"	5.5mm
Orange	9/32"	6mm
Amber	5/16"	7mm
Green	11/32"	8mm
Blue	3/8"	10mm
Black	Torque Handle	Torque Handle

Part Number	Description
92-0078-00	Nutdriver Set - Inch Sizes
92-0280-00	Nutdriver Set - Metric mm
92-0354-00	Replacement Handle

NUT DRIVERS

- Full hollow shaft

Xcelite

Part Number	Ref. No.	Color	Hex Size	Shaft Length	Overall Length
92-0119-00	L-8	Red	1/4"	6"	10-1/8"
92-0117-00	L-10	Amber	5/16	6"	10-1/8"
92-0115-00	L-11	Green	11/32	6"	10-1/8"
92-0114-00	L-12	Blue	3/8	6"	10-1/8"

S.A.E. POWER NUT DRIVER BIT SET

- For Magna Tip screwdriver 1/4" shank
- Adaptable to 1/4", 3/8" and 1/2" chucks
- 7-piece set includes: 3/16", 1/4", 9/32", 5/16", 7/16", 3/8" and 11/32" nutdrivers
- Handy red plastic case

Part Number	Description
92-0223-00	S.A.E. Power Nutdriver Bit Set

MAGNETIC NUT DRIVER

Xcelite

- Ultimate in convenience for assembly and service involving hex operations
- Alnico permanent magnet inserted in socket holds fasteners firmly for easy, one-hand driving or for retrieving or removal
- Socket specially treated and hardened for use with self-tapping screws
- Unique Xcelite development effectively insulates magnet
- Comfortable handle provides adequate torque for one-hand use

Part Number	Ref. No.	Color	Hex Size	Shaft Length
92-0118-00	L-8-M	Red	1/4"	6"

TELESCOPING MIRROR WITH MAGNETIC PICK-UP

- 1.25" round mirror is Ideal for seeing in difficult places
- Swivel connection allows mirror to be angled just right
- 1 lb. Pull magnet picks up dropped parts
- Magnet end extends to 27.25"; closes to 5.25"
- Color: chrome with red vinyl handle

Part Number	Description
92-0350-00	Telescoping Mirror with Magnetic Pick-Up

POCKET SIZE HEX KEY SETS

- Spring bar holds tool in place
- One piece steel case, heat treated 8650 alloy steel
- Folds up like a pocket knife

7-Piece Metric Key Set
Includes the following sizes: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm and 6mm
8-Piece S.A.E. Key Set
Includes sizes: .050, 1/16", 5/64", 3/32", 7/64", 1/8", 9/64" and 5/32"
9-Piece Large S.A.E. Key Set
Includes sizes: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" and 1/4"

Part Number	Description
92-0044-00	7-Piece Metric Hex Key Set
92-0045-00	8-Piece SAE Key Set
92-0046-00	9-Piece SAE Key Set

XCELITE SCREWDRIVERS

- Blades are AISI 6150 chrome vanadium steel, plated for protection

Xcelite

Part Number	Type	Point Size	Shaft Length	Overall Length
92-0173-00	Flat Blade	1/8"	4"	6-5/8"
92-0178-00	Phillips	2	10"	14-1/8"

SUZO-HAPP 5" SCREWDRIVER

- Handy 5" screwdriver with reversible Phillips/Slotted head
- Rubberized handle give you a better grip, even with wet or greasy hands
- Pocket clip makes it easy to carry in your shirt pocket without losing
- Hex shaft with a metal socket
- Smaller size is ideal for those tiny, hard to get spots

SUZO HAPP

Part Number	Description
SCREWDRIVER SUZO- HAPP	Screwdriver with Reversible Phillips/Slotted Head

TWO-IN-ONE STUBBY SCREWDRIVER

- Stubby handle
- 3/16" slotted tip end and No. 1 Phillips end
- Ref. No. TSD-1V

Xcelite

Part Number	Description
92-0088-00	Two-In-One Stubby Screwdriver

4-IN-1 POCKET DRIVER SET

- Compact driver set is ideal for technicians on the go
- Magnetized driver holds tips in place
- Pocket clip for shirt pocket
- Handle color: Red
- Size: 4-1/2" L x 5/8" diameter
- 3/8" nut driver with 7/32" slotted and #1 Phillips tips in the handle

SUZO HAPP

Part Number	Description
92-0369-00	4-In-1 Pocket Driver Set

PHILLIPS SCREWDRIVERS

- Cushion grip
- Various sizes and lengths

Crescent®

Part Number	Point Size	Blade Length	Overall Length
92-0129-00	1	3"	6-3/4"
92-0262-00	2	4"	8-3/8"
92-0263-00	3	6"	11"

4-WAY POCKET TOOL

- Double-ended handle serves as 2 sizes of nutdrivers, 7/16" and 1/4"
- Special reversible SB1 blade fits slotted or Phillips head screws
- Versatile time saver
- Ref. No. 600V

Xcelite

Part Number	Description
92-0187-00	4-Way Pocket Tool

FOUR-IN-ONE SCREWDRIVER

- 2 blades interchangeable with two-in-one screwdriver
- Converts in seconds to 3/16" and 1/4" slotted tips and #1 & #2 phillips tips
- Self storing standard shaft
- Extra Handy Tool
- Ref. No. FSD-IV

Xcelite

Part Number	Description
92-0266-00	4-in-1 Screwdriver

6-PC JEWELERS SCREWDRIVER SET

- Housed in a sturdy plastic case
- Precision screwdriver set
- Includes 2 Phillips blades (1 & 0) and 4 flat blades (1.4mm, 2.0mm, 2.4mm & 3.0mm)

Part Number	Description
92-0072-00	6-pc Jewelers Screwdriver Set

MAGNETIC SCREWDRIVER

- Industrial quality screwdriver
- Magnetic shank with flip top cap
- 1/4" Hex insert bit
- Includes 4 bits in handle: Phillips #1, #2 and Flat #4 , #6

92-0035-00

Part Number	Description
49-0585-00	7" Magnetic Screwdriver with 4 Bits
49-0586-00	11" Magnetic Screwdriver with 4 Bits
92-0035-00	Replacement Screw Cap

SCREWDRIVER BITS

TORX® Tamper-Resistant

Slotted

Phillips

- Ideal for screw guns, cordless and electric drills
- Tough, fracture-resistant tips
- Made in the USA
- Torx® is a registered trademark of Camcar Div. of Textron Inc.

Part Number	Description
49-0632-00	#1 Phillips
49-0633-00	#2 Phillips
49-0574-T10	Torx® T-10 Tamper-Resistant Bit
49-0574-T15	Torx® T-15 Tamper-Resistant Bit
49-0574-T20	Torx® T-20 Tamper-Resistant Bit
49-0574-T25	Torx® T-25 Tamper-Resistant Bit
49-0574-T27	Torx® T-27 Tamper-Resistant Bit

TAMPER RESISTANT TORX® WRENCHES

- 6-piece set
- Contains one each T-10, T-15, T20, T-25, T-27, T-30
- Torx® is a registered trademark of Camcar Div. of Textron Inc.

Part Number	Description
49-0709-00	Tamper-Resistant Torx® Wrench Set

BIT HOLDER FOR HEX INSERT BITS

- Magnetic 1/4" bit holder

Part Number	Description
92-0016-00	2-7/8" Length
92-0050-00	6" Length

1/4" MALE ADAPTOR

- Adapts screwdrivers and drills to drive sockets

Part Number	Description
92-0015-00	1/4" Male Adapter

TAMPER RESISTANT STAR BIT SET

- For tamper-resistant star fasteners
- Tempered, precision-machined tips
- Complete with PVC organizer
- Includes 7 bits: T-10, T-15, T-20, T-25, T-27, T-30, T-40

Part Number	Description
49-0710-00	Tamper-Resistant Star Bit Set

33-PIECE SECURITY BIT SET

- Handy pocket size set
- Bits commonly used to remove tamper resistant screws
- Blister card packaging
- Set Includes:
  - 'Star': #T8, T10, T15, T20, T25, T27, T30, T35, T40
  - Hex: #5/64", 3/32", 7/64", 1/8", 9/64", 5/32"
  - Hex: #2, 2.5, 3, 4, 5, 6
  - Tri-Wing: #1, 2, 3, 4
  - Fork: #4, 6, 8, 10
  - Four-Wing: #6, 8, 10
  - Magnetic bit holder: 1/4" hex

Part Number	Description
49-0710-10	33-Piece Security Bit Set

100-PIECE SCREWDRIVER BIT SET

- Indispensable when working on: cars, machinery,household appliances, electric & electronic devices
- Set Includes:
  - Philips bits: PH.0, PH.1, PH.2 (5x), PH.3
  - Pozzi Bits: PZ.0, PZ.1, PZ.2 (5x), PZ.3
  - Square Bits: S0, S1, S2, S3
  - Clutch Bits: 1, 2, 3
  - 1 wing nut driver
  - 4 extension bits:
  - Socket bit holder: 1 pc
  - Magnetic bit holder: 1 pc
  - 1/4" sq. x 1/4" x 2" extension: 1 pc
  - 1/4" sq. x 1/4" x 1" extension: 1 pc
  - Antenna remover bits: 4, 6, 8, 10
  - Tri-Wing Bits: 6, 8, 10
  - Four-Wing Bits: 1, 2, 3, 4
  - Flat Bits: 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8mm
  - Metric Hex Bits: 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8mm
  - Fractional Hex Bits: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/2
  - 'Star' Bits: T8, T10, T15, T20, T25, T27, T30, T40, T45
  - 'Star' with Centre Bits: T8, T10, T15, T20, T25, T27, T30, T35, T40
  - Dodecagonal 'Star' Bits: M5, M6, M8
  - Metric Hex with Centre Bits: 2, 2.5, 3, 4, 5, 6mm
  - Fractional Hex with Centre Bits: 5/32, 9/64, 1/8, 7/64, 3/32, 5/64

Part Number	Description
92-2346-00	100-pc Screwdriver Bit Set

PLATT MECHANICS TOOL BAG

- Black Cordura fabric
- Water-repellent and very durable
- 8 sewn-in pockets on the inside and 2 snap pouches on the outside
- Compact utility bag will keep your tools and parts organized
- 12” L x 6” W x 6-1/2” D

Part Number	Description
92-0348-00	Platt Mechanics Tool Bag

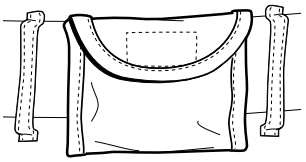
4-POCKET HOLSTER

- Clip-on 4-pocket holster for mini-flashlight, tools, marker, etc.
- Made in the USA
- Overall size: 4” x 4”
- 3 small pockets and 1 large pocket in back
- Constructed from tuff poly webbing and a plated spring steel clip
- Easily worn with or without a belt
- Spring-loaded metal belt clip on back

Part Number	Description
92-0564-00	4-Pocket Holster

GLOVE POUCH

- Made of black cordura nylon
- 2-1/2" low profile belt loop



Part Number	Description
92-0112-00	4" x 4" Large Glove Pouch

SECURITY POUCH

- 3 large pockets hold: 1 set handcuffs, 2 pair latex gloves, 1 Mag-lite, 2 pens or 1 marker, 1 log book
- Fits on web belts
- Made in the USA from heavy duty black nylon Cordura®
- Size: 8” (L) x 4” (W) x 1-1/2” (D)
- May also be used as a tool holder
- Handcuffs and tools not included

Part Number	Description
92-0289-00	Security Pouch

LARGE SLOT MACHINE POUCH

- 6” W x 8-1/2” H
- 2 pockets
- Black Imperial nylon
- Large belt loop sewn on back

Part Number	Description
92-0111-00	Large Slot Machine Pouch

RADIO/EMT COMBO POUCH BY RAINE

- Heavy-duty multipurpose pouch ideal for repair techs, handymen and security staff
- Fits on your belt and can hold any size radio, scissors, pens, mini flashlight, small screwdriver and cell phone
- Made in the U.S.A. from durable Polypro Web
- Easy care maintenance, pouch can be washed in water and is unaffected by oil or mildew
- Size: 2.5” W x 1.75” D x 9” H
- Minimum height 6”

Part Number	Description
92-2083-00	Radio/EMT Combo Pouch

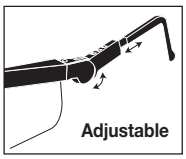
LARGE TOOL HOLDER

- 3 large pockets
- Extra space for additional tools
- Made from heavy duty black nylon Cordura
- Fits on tool belt

Part Number	Description
92-0012-00	Large Tool Holder

SAFETY GLASSES WITH ADJUSTABLE FRAME

- Economical, wrap-around styling with integral sideshields and nosebridge
- Impact resistant lenses treated with Duramass® AF4 scratch-resistant coating
- Adjustable temple length
- Unique fully-adjustable, five-position ratchet-action temples
- Clear polycarbonate lenses filters out 99.9% of harmful UV light
- Meets CSA Z94.3
- Meets ANSI Z87.1-2003 High Impact
- Black frame



Part Number	Description
92-0136-01	Safety Glasses w/Adjustable Frame

ANTI-STATIC WRIST WRAP

- Prevent damaging static discharge while working on static-sensitive equipment
- Works continuously, discharging electricity harmlessly as its generated
- Includes a 5' grounding cord attachment
- A "must-have" for any technician

Part Number	Description
92-1338-00	Anti-Static Wrist Strap

DREMEL ELECTRIC ENGRAVER

- 7,200 strokes per minute
- Includes letter and number template
- 1.15 amp

92-2047-00

92-1864-00

Part Number	Description
92-1864-00	Dremel Electric Engraver
92-2047-00	Dremel 405 Bristle Brush

GLUE STICKS

- 10" glue sticks
- Pack of 20

Part Number	Description
29-1145-00	Glue Sticks (Pack of 20)

FLEXTSTONE FILES

- For filing electrical contact points
- 4-1/4" long

Part Number	Description
43-0686-00	Fine Grit
43-0687-00	Medium Grit

METAL BURNISHER

- For burnishing electrical contacts
- 4" long

Part Number	Description
43-0579-00	Metal Burnisher

SPRING HOOK & SCRIBE

- Double fixed-point scribe
- One straight point and one curved hook
- Overall length of 8"

Part Number	Description
49-0655-00	Spring Hook & Scribe Tool

TAP & DRILL SET

- Designed for electricians
- 13-Piece set holds carbon taps and matching HSS twist drills
- Housed in durable plastic case
- Includes 6 carbon plug taps- sizes: 4-40, 6-32, 8-32, 10-24, 10-32, 1/4-20 6 HSS twist drills-sizes: 43, 36, 29, 25, 21, 7 and a T-handle wrench

Part Number	Description
92-0080-00	Tap and Drill Set

15 PIECE DELUXE DRILL BIT SET

- 1/4" round shank twist drills
- Reduced shanks on sizes above 1/4"
- Durable molded plastic case
- 1/16" center punch and full fractional drill range
- Includes sizes 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 7/16" and 1/2"

Part Number	Description
92-0027-00	Deluxe Drill Bit Set

SOLDER PENCIL

- Weller Marksman 25W with stainless steel barrell
- Replaceable nickel-plated copper tip
- Heat and impact resitant handle

Weller®

Part Number	Description
SP23	Solder Pencil

UNIVERSAL SOLDERING GUN

- 2-wire cord
- UL listed
- 120 volt, 50/60 Hz, 140/100 watts
- Ref. No. 8200
- Fingertip trigger selection of high or low output from instant-heat gun-ready to solder in 6 seconds
- High efficiency tin plated, pure copper tip
- Compact, balanced pistol-grip design
- Soldering hints booklet included

Weller®

Part Number	Description
94-8200-00	Universal Soldering Gun
94-7135-00	Replacement Soldering Tip, card of 2

REPLACEMENT TIPS

portasol® P-1

Weller®

92-0252-00 92-0192-00

Part Number	Ref. No.	Size
92-0252-00	T-1	1.0mm Pro Tip
92-0192-00	T-3	3.2mm Pro Tip

WELLER SOLDERING IRONS

Weller®

- Professional quality
- 7-7/8" / 200mm long
- Small and lightweight
- 6 ft. 3-wire cord
- UL Listed
- Quick change knurled collar
- Stainless steel barrel
- Uses ST series long life double-coated iron-plated tips
- Light blue with cushion grip handle and plug in heating element
- 3 different heating elements are available

Part Number	Ref. No.	Watt
94-0025-00	WP25	25
94-0035-00	WP35	35

PORTASOL BUTANE SOLDERING IRON

- Cordless, refillable butane gas-powered soldering equipment
- Does not require cords, batteries or cartridges
- Patented soldering tool has a catalytic converter that provides a powerful yet safe flameless combustion
- Refills with butane lighter gas

portasol® P-1

Weller®

Part Number	Description
92-0194-00	Portasol Butane Soldering Iron

PORTASOL SOLDERING KIT

portasol® P-1 Weller®

- Does not require cords, batteries or cartridges
- Patented soldering tool has a catalytic converter that provides a powerful yet safe flameless combustion
- Refills with butane lighter gas (29-1055-00)
- Develops 850˚ F/ 454˚ C
- Kit contains Portasol P-1 soldering tool, 3/32 in. / 2.4mm iron-plated soldering tip, hot knife accessory, hot blower accessory, blow torch accessory, cleaning sponge and safety stand
- Ref. No. P-1KC

Part Number	Description
92-0277-00	Portasol Soldering Kit

SOLDER POPPER

- Combines a snap-vacuum solder removal tool with a 30 watt soldering iron for fast, one hand operation
- Excellent tool for field repair or production work
- Tightly sealed vacuum pump snaps up all of the solder quickly
- Removable reservoir stores solder
- Long life tip unscrews for easy replacement

Part Number	Description
92-0759-00	Solder Popper

MANUAL DESOLDERING PUMPS

94-0200-00

94-0201-00

- Removes molten solder from printed circuit boards and electronic components
- Plunger seal spring creates extremely strong suction
- Antistatic Teflon tips that screw into the body to ensure that the strong vacuum is maintained
- Tool features push button plunger release and lightweight aluminum body that withstands high temperatures
- Tips unscrew to allow easy removal of accumulated solder debris

Weller®

Part Number	Ref. No.	Description
94-0201-00	7881	Desoldering Pump w/.125" Tip
94-0203-00	7883	Replacement 0.125" Tip
94-0200-00	7874B	Desoldering Pump w/0.07" Tip
94-0202-00	7875B	Replacement 0.08" Tip

REPLACEMENT PARTS FOR WELLER WES50 & WES51 ELECTRONIC SOLDERING STATION

94-0233-00

94-0236-00

94-0234-00

94-0238-00

94-0235-00

94-0239-00

Weller®

Part Number	Ref. No.	Tip Size & Description
94-0234-00	ETR	1/16" Narrow Tip
94-0233-00	ETS	1/64" Conical Tip
94-0238-00	ETDD	3/16" Flat Tip
94-0235-00	ETO	1/32" Conical Tip
94-0236-00	ETA	1/16" Screwdriver Tip
94-0239-00	ETK	3/64" Long Screwdriver Tip

REPLACEMENT SOLDER TIPS FOR WTCPT STATION

- Heavy iron plated, precision ground PT series tips
- Provide maximum heat transfer from heater to tip

Weller®

Part Number	Ref. No.	Tip Size & Description
94-0093-00	PTP7	7000 F Conical Tip
94-0094-00	PTA7	7000 F Screwdriver Tip
94-0263-00	PTO7	7000 F Long Conical Tip
94-0095-00	PTA8	8000 F Screwdriver Tip

REPLACEMENT SOLDERING TIPS

- For Weller WP25 and WP35 solder irons
- ST series tips
- Precision ground copper tips are plated with iron, nickel and chromium

ST1

ST3

Weller®

ST7

Part Number	Ref. No.	Tip Size & Description
94-0001-00	ST1	1/16" Screwdriver Tip
94-0003-00	ST3	1/8" Screwdriver Tip
94-0007-00	ST7	1/32" Conical Tip

CONTROLLLED OUTPUT SOLDERING STATION

- Transformer powered soldering station complete with macro style, low voltage, temperature controlled soldering iron
- Special “closed loop” method of controlling maximum tip temperature.....to protect temperature sensitive components
- Quick disconnect plug for soldering iron and lighted on/off switch
- Separate conductor grounds iron tip and terminates at third pin of power cord
- UL listed
- 120 volts, 60 watts, 60 Hz
- Ref. No. WTCPT

Part Number	Description
94-0092-00	Controlled Output Soldering Station

Replacement Tips		
Part Number	**Ref. No.**	**Description**
94-0210-00	TC201T	Solder Iron with Tip
94-0106-00	455	Sponge
94-0060-00	SW60	Switch Assembly

WELLER ELECTRONIC SOLDERING STATION

- Electronically controlled station
- Ideal for continuous production soldering or occasional use
- Features a new heater and sensor design that allows for quick heat-up and recovery
- Wireless temperature lockout to prevent operators from raising the temperatures to higher levels than specified
- Wireless tip temperature calibration provides capability of resetting station temperature readings to variations in tip sizes and styles
- Slim, comfortable hand piece reduces operator fatigue
- ESD safe to protect sensitive components
- 120 volts, 60 watts
- UL listed
- Ref. No. WES51

Part Number	Description
92-0213-00	Weller WES51 Soldering Station

WELLER DIGITAL 85W SOLDERING STATION, 120V

- 3 "radio buttons" allows to pre-set frequently used temperature settings
- Extensive Special Functions menu allows you to utilize access features
- Setback, lockout, temp. window, F/C switching, standby, auto-off time
- Large high contrast LCD display displays more information at a glance
- The heating element is contained in the pencil rather than the tip
- Micro pencil with short tip to grip (37 mm) puts you close to the work
- High output pencil allows you to work with lead-free solder
- Iron stand has adjustable tilt angle in 4 positions ranging from 30-80
- ESD safe to protect sensitive components
- Ref. No. WD1001

Product Details	
Wattage	85 W
Soldering Pencil(s)	WMP
Temp Range	150° F to 850° F
Voltage Input/Output	120 V/24 V
Supplied Tip(s)	NT1
Iron Stand	WDH20
Temp Accuracy	+/- 9° F to +/- 5° C
Length	15.354"
Width	10.236"
Height	8.268"
Gross Weight	8.818 lb.
Volume (cu in)	1299.428

Part Number	Description
92-2734-00	Weller Digital 85W Soldering Station, 120V

SPONGE FOR SOLDERING STATION

- Replacement Sponge sold in eaches
- Ref. No. 455

Part Number	Description
94-0106-00	Sponge for Soldering Station

SOLDERING TOOL STAND

- Soldering tool stand with base sponge and iron holder
- Compatible with Weller W60P, WP25, WP30, WP35 and irons with barrel diameters up to 15/32"/11.90mm
- Ref. No. PH60

Part Number	Description
94-0280-00	Soldering Tool Stand

CHIP QUIK SMD REMOVAL KIT

- By adding Chip Quik normal solder will reflow at a safe low temperature below 150˚
- Remove QFPs, PLCCs, SOICs and chip components without complex and costly equipment
- A large inventory stock of heater tips and nozzles are not required
- Use Chip Quik with existing rework equipment or temperature controlled soldering irons
- Eliminates mechanical damage from chip extraction when reflow is incomplete
- Complete instructions for SMD removal and cleanup included
- Contents provided in a durable plastic case

Part Number	Description
92-2148-00	Chip Quik SMD Removal Kit
92-2144-00	Chip Quik Complete Solder/Desolder Kit

SOLDER PEN

- Handy disposable dispenser with pocket clip
- 12-1/2' of .032 diameter solder
- 60% tin 40% lead, with rosin core

Part Number	Description
29-1035-00	Solder Pen

KESTER FLUX PEN®

- The Kester Flux-Pen® is a unique tool for rework and touch-up soldering
- It allows controlled application of flux, eliminating the mess from flux bottles
- Flux-Pen® are ideally suited for surface mount rework, component add-on applications, and TAB assembly operations.

Part Number	Description
29-0111-00	Formula 186 Flux-Pen®

SOLDER SPOOL

- Activated rosin core solder offers excellent wetting action
- Completely non-corrosive and electrically non-conductive
- 60% tin 40% lead
- 1 lb. spool of solder

Part Number	Diameter	Description
29-1152-00	0.62	Kester “44”
29-1050-00	0.31	Kester “44”

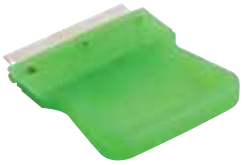
PROWICK® DESOLDERING BRAID

- Advanced braid design works instantly to pull in excess solder
- Pure copper braid construction enhances wicking action
- Mildest non-activated white rosin flux ensures safe, clean operation
- Vacuumed-packaged for longer shelf life

Part Number	Description	Width	Length
80-0012-00	#1 White Fine Braid	.035"	5’
80-0016-00	#2 Yellow Fine Braid	.055"	10’
80-0017-00	#2 Yellow Fine Braid	.055"	25’
80-0022-00	#3 Green Fine Braid	.075"	5’
80-0018-00	#3 Green Fine Braid	.075"	10’
80-0020-00	#3 Green Fine Braid	.075"	25’
80-0040-00	#4 Blue Fine Braid	.098"	5’
80-0030-00	#4 Blue Fine Braid	.098"	10’
80-0034-00	#4 Blue Fine Braid	.098"	25’
80-0023-00	#4 Blue Fine Braid	.098"	100’

MINI RAZOR BLADE & HOLDER

- Blade easily snaps in and out
- Blade can be stored upside down for safety
- Holds blade securely for scraping jobs
- Includes one blade



Part Number	Description
49-5053-00	Mini Razor Blade Holder and Scraper

RAZOR BLADES

- Single edge
- Industrial quality
- Sold 100 per box

Part Number	Description
49-0926-00	Razor Blades

UTILITY KNIFE

- Fully retractable blade with slide stop operation
- 3 blade positions - full, 1/2 and 1/4
- Aluminum handle is contoured to fit the palm of the hand
- Includes 3 heavy duty blades
- Extra blades can be stored in the handle

Part Number	Description
92-0040-00	Utility Knife

UTILITY KNIFE BLADES

- Heavy Duty
- Sold in packages of 5

Part Number	Description
92-0014-00	Utility Knife Blades

HAKKO 493 SMOKE ABSORBER

Soldering work involves both metallic and organic compounds; the solders themselves, and the fluxes necessary for soldering. These compounds release noxious fumes when heated, which can lead to both short and long term operator irritations and illness.

- The Hakko 493 is designed to remove these noxious fumes quickly, safely, and efficiently
- The replaceable filter is made by joining a specific urethane foam with refined, activated high absorption carbon
- The fan is fully adjustable, quiet, and efficient
- ESD safe by design. The entire unit is processed with a non-sloughing static dissipative conductive material

SPECIFICATIONS	
Part No. 493-10	
Power Consumption	17W
Absorption Capacity (w/o filter)	Approx. 1.07m³/min. (37.79 ft³/min.)
Outer Dimensions	220mm W x 270mm H x 168mm D (8.7 W x 10.6 H x 6.6 D in.)
Weight	1.5 kg (3.3 lbs.)
Accessories	Filter (3 pcs.)
Activated-Carbon Filter	
Size	130 x 130 x 10 mm (5.1 x 5.1 x 0.4 in.)
Amount of Activated-Carbon filter	12 g (0.03 lb.)
Max. Absorbing weight of noxious components per filter	4 g (0.01 lb.)

Part Number	Description
92-1260-00	Hakko 493-10 Smoke Absorber

HAKKO 808 DESOLDERING TOOL

The Hakko 808 is a handy, portable desoldering tool with a built-in vacuum pump. No separate station is required.

- Thin, comfortable grip and low vibration

This unique Hakko design places the pump and motor above, not inside, the grip. Vibration is kept to a minimum, and the grip is thin and easy to hold. Delicate tasks are performed with greater ease; the tool can be used for long periods without operator fatigue.

- Simple and inexpensive pump maintenance

The new, miniature, high-performance diaphragm pump is housed in the chamber at the rear of the Hakko 808. Pump maintenance is quick and easy-simply remove the cover. If repairs are ever needed, replacement parts are inexpensive

- Tip-to-ground potential difference no greater than 2mV
- Tip-to-ground resistance no greater than 2 ohms
- Adjustable temperature control (380°C - 480°C / 715°F - 895°F)
- Includes Carrying Case and Hot Sock

(PN: Carrying Case - C1099 and Hot Sock - 605M)

SPECIFICATIONS	
Part No. 808-KIT/P	
Power Consumption	100W
Heating Element	Ceramic heater
Motor Output	6.5W
Temperature	380°C - 480°C (715°F - 895°F)
Tip to Ground Resistance	Under 2 ohms
Tip to Ground Potential	Under 2mV
Vacuum Pump	Double-cylinder diaphragm pump
Vacuum Pressure	600 mmHg (24 in. Hg)
Suction Flow	10 l/min.
Dimensions (w/o Case)	170 H x 235 W mm (6.7 H x 9.3 W in.)
Weight (w/o Case)	420 g (0.9 lb.)
Standard Nozzle	A1005 (Nozzle dia. 1.0mm)

Part Number	Description
92-1253-00	Hakko 808 Desoldering Tool

HAKKO 472D DESOLDERING TOOL

Desoldering process control made easy with the Hakko control card. Use the card to enter temperature settings into the system memory. When the card is removed, all parameter settings and the temperature setting are "locked" in the system memory. This not only provides strict process control but also guards against operators making inadvertent changes

- The Hakko 472D provides a pencil-type desoldering tool with powerful suction power
- The short straight heating element aids in ease of operation
- The output circuit is isolated from the power input and insulated transformer
- ESD Safe by design
- Zero crossover switching on motor

SPECIFICATIONS	
Part No. 472D-01	
Output Voltage	24V AC
Power Consumption	110W
Vacuum Generator Vacuum pump, double cylinder type	
Vacuum Pressure	80 kPa (600 mmHg) (24 in. Hg)
Suction Flow	15 l/min.
Motor Output	18W
Outer Dimensions	160 x 148 x 263 mm (6.3 x 5.83 x 10.35 in.)
Weight	Approx. 4.6 kg (10.13 lbs.)

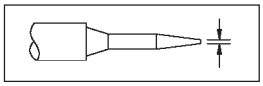
Desoldering Handpiece - Model Name 807	
Part No. C1091	
Heating Element	Ceramic Heater
Power Consumption	24V AC/60W
Nozzle-to-Ground Resistance	Under 2 ohms
Nozzle-to-Ground Potential	Under 2 mV
Temperature	350°C - 450°C (662°F - 842°F)
Standard Nozzle	A1003 (Nozzle dia. 1.0mm)
Length	250 mm (8.07 in.)
Weight (w/o cord & hose)	Approx. 150 g (0.35 lb.)

Part Number	Description
92-1218-00	Hakko 472D-01 Desoldering Tool

PACE HEATWISE™ AND TEMPWISE™ TIPS

- Wide variety of long life tips
- Superior heat transfer capability

92-1447-00



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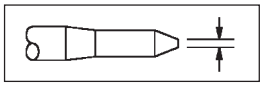

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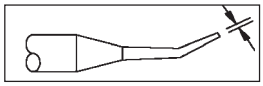

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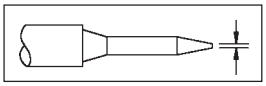

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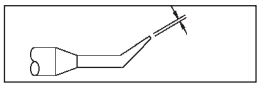

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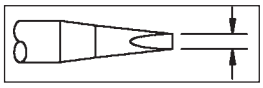

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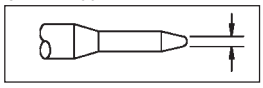

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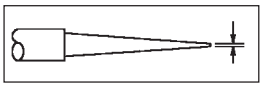
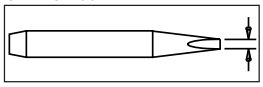


Part Number	Reference Number	Description	Size - Length	Size - Diameter
92-1447-00	1124-0001-P1	1/32” Conical Sharp Extended	13.4mm (0.530”)	0.80mm (0.031”)
92-1449-00	1124-0003-P1	1/64” Conical Sharp Bent 30 Degrees	7.8mm (0.310”)	0.40mm (0.016”)
92-1450-00	1124-0004-P1	1/64” Conical Sharp Extended	13.5mm (0.535”)	0.40mm (0.016”)
92-1461-00	1124-0015-P1	1/64” Conical, Sharp, Bent 30 Degrees Extended	15.8mm (0.625”)	0.40mm (0.016”)
92-1465-00	1124-0019-P1	1/16” 30 Degree Chisel	9.9mm (0.390”)	1.60mm (0.063”)
92-1471-00	1124-0025-P1	1/16” Conical Sharp Extended	12.1mm (0.478”)	1.60mm (0.063”)
92-1482-00	1124-0036-P1	1/128” Conical	N/A	0.19mm (0.007)

PACE PS-80/90 TIPS

92-1484-00



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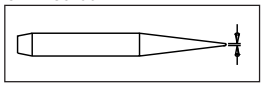

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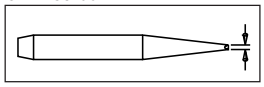

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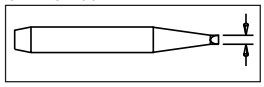

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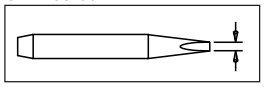

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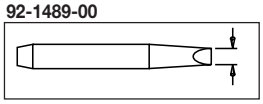

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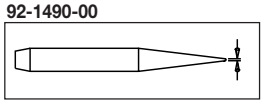

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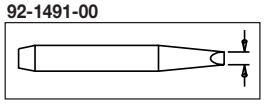

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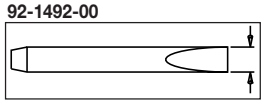

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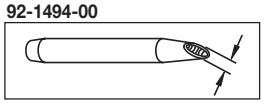
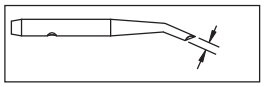
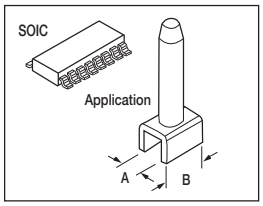


Part Number	Reference Number	Description	Pkg Qty
92-1484-00	1121-0414-P5	1/16” Chisel (High Conductivity)	5
92-1485-00	1121-0357-P5	1/64” Conical	5
92-1486-00	1121-0336-P5	1/32” Conical	5
92-1487-00	1121-0335-P5	1/16” Chisel	5
92-1488-00	1121-0499-P5	1/16” Chisel (Extended Reach)	5
92-1489-00	1121-0337-P5	1/8” Chisel	5
92-1490-00	1121-0359-P5	1/32” Chisel	5
92-1491-00	1121-0360-P5	3/32” Chisel	5
92-1494-00	1121-0490-P5	Mini-Wave	5
92-1502-00	1121-0390-P1	SOIC-8 Removal	1
92-1504-00	1121-0391-P1	SOIC-14 Removal	1

92-1495-00



92-1502-00 92-1504-00



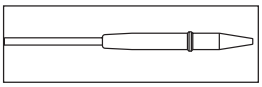
PACE SX-70 AND SX-80 SUPPLIES

Part Number	Ref. No.	Description
92-1529-00	1309-0018-P50	SX-70 Sodr-X-Tractor Filters, Pkg 50
92-1531-00	1265-0009-P1	SX-70 Glass Chamber, Pkg 1
92-1533-00	6010-0080-P1	SX-70 Heater And Seal Assembly, Pkg 1
92-1542-00	1127-0014-P5	SX-70 Wire Brush 3/16”, Pkg 5
92-1535-00	6010-0106-P1	SX-80 Hand Piece, Pkg 1
92-1537-00	1309-0054-P10	SX-80 Flux/Sodr Trap, Pkg 10
92-1538-00	1309-0054-P100	SX-80 Flux/Sodr Trap, Pkg 100
92-1539-00	6010-0107-P1	SX-80 Heater Assembly, Pkg 1
92-1541-00	1500-0063	SX-80 Plunger Lock, Pkg 1
92-1543-00	1309-0028	Replaceable Visifilter, Pkg 1
92-1544-00	1309-0027-P10	Replaceable Visifilter, Elements, Pkg 10
92-1545-00	1309-0027-P25	Replaceable Visifilter, Elements, Pkg 25

PACE DESOLDERING TIPS FOR SX-70 AND SX-80

- Sold in packages only

92-1514-00



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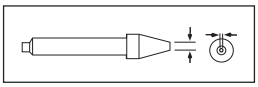

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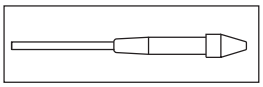

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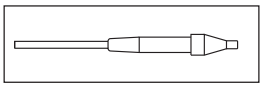

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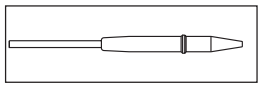

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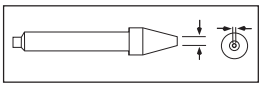

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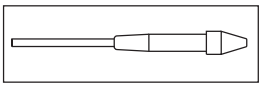

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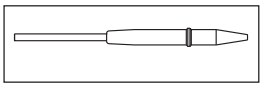

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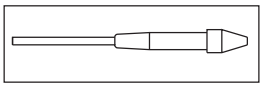

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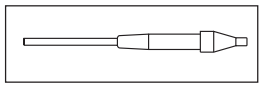

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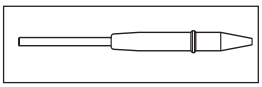

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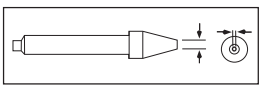

Part Number	Reference Number	Description	Size	Package Quantity
92-1514-00	1121-0680-P5	Precision Endura Tip	0.020" ID	5
92-1507-00	1121-0367-P5	Thermo-Drive Desoldering Tip	0.030" ID	5
92-1512-00	1121-0625-P5	Thermo-Drive Endura Tip	0.030" ID	5
92-1517-00	1121-0628-P5	Thermo-Drive Endura Tip	0.030" ID	5
92-1522-00	1121-0678-P5	Precision Endura Tip	0.030" ID	5
92-1508-00	1121-0342-P5	Thermo-Drive Desoldering Tip	0.040" ID	5
92-1513-00	1121-0624-P5	Thermo-Drive Endura Tip	0.040" ID	5
92-1521-00	1121-0679-P5	Precision Endura Tip	0.040" ID	5
92-1518-00	1121-0626-P5	Thermo-Drive Endura Tip	0.060" ID	5
92-1515-00	1121-0630-P5	Thermo-Drive Endura Tip	0.060" ID	5
92-1520-00	1121-0690-P5	Precision Endura Tip	0.060" ID	5

PACE MBT 250-SDTp SOLDERING/DESOLDERING STATION

- Self-contained, three channel capability offers high capacity, low temperature SMT/Thru-Hole soldering and desoldering
- Digital readout displays the current channel's temperature information, error codes and programming status
- AUTO Snap-VAC improves thru-hole desoldering performance, and increases tip life—a PACE EXCLUSIVE feature
- "QUIET FLO" pump for vacuum and pressure
- Operates any three SensaTemp hand pieces simultaneously
- Automatic or manual tip temperature setback and power down, constant memory
- Automatic tip offset compensation system

Specifications	
Power Requirements	115VAC, 60Hz, 230VAC, 50/60Hz, 184 Watts maximum, 207 Watts maximum
Dimensions	135mm H x 165mm W x 260mm D (5.3"x 6.5"x 9.25")
Weight	Approx. 5 Kg (10 lbs.) Approx. 5 Kg (10 lbs.)
Handpiece Specs	
Tip to ground resistance	2 ohms or less
Temperature stability	± 1.1°C (± 2°F) at idle from set tip temp.
Tip Temperature Range	38° to 482°C (100° to 900°F) nominal
Vacuum and Air	
Vacuum Rise Time	200ms average as measured by PACE Process Monitor
Vacuum	51 cm Hg. (20 in. Hg.) nominal
Pressure	.48 Bar (7 p.s.i.) nominal at maximum setting
Air Flow	9 SLPM (0.32 SCFM) maximum

Part Number	Description
92-1440-00	Pace Mbt 250-SDTP Soldering/Desoldering Station

PACE MBT 250-SD SOLDERING/DESOLDERING SYSTEM

- High Performance SensaTemp Soldering/Desoldering Station
- Self-contained, three channel capability offers high capacity, low temperature SMT/Thru-Hole soldering and desoldering
- Digital readout displays the current channel's temperature information, error codes and programming status
- AUTO Snap-VAC improves thru-hole desoldering performance; increases tip life—a PACE EXCLUSIVE feature
- "QUIET FLO" pump for vacuum and pressure
- Operates any three SensaTemp handpieces simultaneously
- Automatic or manual tip temperature setback and power down, constant memory
- Automatic tip offset compensation system

Specifications	
Power Requirements	115VAC, 60Hz, 230VAC, 50/60Hz, 184 Watts maximum, 207 Watts maximum
Dimensions	135mm H x 165mm W x 260mm D(5.3" x 6.5" x 9.25")
Weight	Approx. 5 Kg (10 lbs.) Approx. 5 Kg (10 lbs.)
Handpiece Specs	
Tip to ground resistance	2 ohms or less
Temperature stability	± 1.1°C (± 2°F) at idle from set tip temperature
Tip Temperature Range	38° to 482°C (100° to 900°F) nominal
Vacuum and Air	
Vacuum Rise Time	200ms average as measured by PACE Process Monitor
Vacuum	51 cm Hg. (20 in. Hg.) nominal
Pressure	.48 Bar (7 p.s.i.) nominal at maximum setting
Air Flow	9 SLPM (0.32 SCFM) maximum

Part Number	Description
92-1439-00	Pace MBT 250-SD Soldering/Desoldering System

PACE ST25 ANALOG SOLDERING STATION

- Analog SensaTemp Soldering Station
- High capacity SMT/Thru-hole soldering
- Adjustable °F/ °C temperature control dial
- Temperature/dial lock
- Modular stacking capabilities
- Ref. No 8007-0371

Specifications	
Unit	ST 25
Power Requirements	97-127 VAC, 50/60 Hz, 90 197-253 VAC, 50/60 Hz, 80 Watts maximum at 115 VAC 60Hz Watts maximum at 230 VAC, 50Hz
Dimensions	88mm H x 114mm W x 165mm D (3.5" x 4.5" x 6.5")
Weight	Approx. 2.3 Kg (5 lbs.) Approx. 2.3 Kg (5 lbs.)
Handpiece Specs	
Tip to ground resistance	2 ohms or less
Temperature stability	± 1.1°C (± 2°F) at idle from set tip temperature
Tip Temperature Range	204° to 454°C (400° to 850°F) nominal

Part Number	Description
92-1444-00	PACE ST25 Analog Soldering Station

SENCORE VP401 VIDEOPRO MULTIMEDIA GENERATOR

New

- Portable video generator for testing and calibrating all display types in all operating modes
- Supplies all of the video outputs needed, including DVI and HDTV ATSC RF
- Selectable formats allow testing of a video display in all operating modes
- Generates precise, innovative video patterns for accurate display testing and calibration
- Handheld, portable and battery operated for an accurate signal source wherever video displays are tested
- VP401 Outputs includes:
  Composite, S-Video, Component (YPbPr), RGB-S, RGB Sync on G, RGBHV, NTSC RF Ch 2, 3, 4, 6, DVI,
- Supplied Accessories:
  DVI-I to DVI-I 6 ft. cable, DVI-I to 5 BNC 6ft. cable, DVI-A to VGA HD-15F adapter, S-Video 6 ft. cable, Coaxial RF "F" to RF "F" 6 ft. cable, BNC to RCA Phono adapters (5)
- Optional Accessories: DVI to HDMI, Soft Carrying Case, Hard Carrying Case

SENCORE

Part Number	Description
92-2722-00	Sencore VP401 VideoPro Multimedia Generator

SENCORE CP6000 COLORPRO V COLOR ANALYZER

New

- A highly accurate contact color analyzer for use with LCD, RPTV, CRT, and Plasma displays
- Simplified single-probe measurement of all display types
- Fast, constant-rate measurement updates, at all light measurement levels
- Automatic dark calibration for simpler, error-free operation
- Improved low light level measurement accuracy
- RoHS-compliant construction
- **CP6000 ColorPro software provides:**

  Updated improved user interface, Automated Calibration Control Center, Sencore Video Generator control, Expanded reporting features, Ambient light cancellation, Performance Test measurement wizards, Wide color gamut support, Additional color space measurements (Yu'v', XYZ, etc.)
- **CP6000 ColorPro V Color Analyzer Supplied Accessories:**

  ColorPro V calibration sensor with suction cups, Twist-on felt pad attachment for LCD calibration, Sensor counter-weight for use with felt pad attachments, ColorPro6000 software CD
- **CP6000 ColorPro V Color Analyzer Specifications**

  Performance for 1.0 cd/m2 < Y < 1000 cd/m2 Accuracy—

  Display:

  White (x/y) ± 0.002
  Color (RGB, x/y) ± 0.004
  Luminance (Y) ± 3% Y

  Repeatability (same sensor, no dismount):

  White (x/y) ± 0.001
  Color ± 0.001
  Luminance ± 0.5% Y

  Measurement Time: Approximately 1 second

  Performance for 0.05 cd/m2 < Y < 1000 cd/m2 Accuracy—

  Display:

  White (x/y) ± 0.006
  Color (RGB, x/y) ± 0.006
  Luminance (Y) ± 5% Y

  Repeatability (same sensor, no dismount):

  White (x/y) ± 0.002
  Color ± 0.002
  Luminance ± 0.5% Y

  Measurement Time: Approximately 1 second

GO GREEN

SENCORE

- Sensor linearity throughout dynamic range
  Measured on integrating sphere with tungsten illumination: ± 2%
- *Luminance resolution:*

  Measuring LCD: ~ 0.01 cd/m2
  Measuring CRT: ~ 0.25 cd/m2
- *Weight and Size (approximate): unpacked*

  Total weight: 0.45 lbs.

  Diameter: 2.7"

  Height: 1.6"

  Cable length: 72"

Part Number	Description
92-1930-00	Sencore CP6000 ColorPro V Color Analyzer

SENCORE OTC1000 COLORPRO OPTICAL COLOR ANALYZER

New

OTC1000 ColorPro Color Analyzer Features:

- Optical non-contact color analyzer for highly accurate and convenient measurement and calibration of all display systems, including front projectors, rear projection, LCD, plasma, and CRT displays
- OTC1000 measurements closely match human eye response, using highly accurate tri-stimulus filtered sensors capable of measuring to extreme low light conditions
- Takes continuous constant-rate (less than 1 second) measurement updates at light levels down to 0.01fL
- It is non-contact – using a laser aiming tool for proper screen alignment
- Setup is quick and straight-forward, and the user interface is very easy to use

CP6000 software includes:

- Ambient Light Cancellation – allows you to accurately calibrate displays regardless of ambient light conditions
- Video Generator control – makes calibration much quicker, especially pre-cal and post-cal capture and gamma tests
- Automated Color Gamut measurement and adjustment
- Expanded database – for capturing “as found” information on the display under test
- Expanded reporting – feature and functions

ColorPro Optical Tri-stimulus Color Analyzer Accessories:

- CP6000 software CD
- 10 ft. cable - USB A to B
- Heavy- duty Mounting Tripod (optional)

Specifications	
Measurement Type	Optical tri-stimulus colorimeter
Optical Configuration	± 3.5° measurement field Fixed optics
Measurement Distance	40” — 65’
Aiming Aid	Integrated laser pointer
Spectral Range	380 — 720 nanometers
Luminance Range	0.034 to 1370 cd/m2
Luminance Resolution	0.001 cd/m2
Measurement Time	0.20 to 1.0 sec (typical)
Weight (unpacked)	1.9 lbs. (approx.)
Dimensions (unpacked)	7.9” L x 3.1” W x 3.1” H
Accuracy	Chromaticity, Luminance:
(to calibration LCD grayscale)	160 — 1370 cd/m2: ± 0.002, ± 1%
	40 — 160 cd/m2: ± 0.003, ± 1.5%
	10 — 40 cd/m2: ± 0.0035, ± 3%
Repeatability	Chromaticity, Luminance:
(constant white display)	300 — 1370 cd/m2: ± 0.0002, ± 0.05%
	30 — 300 cd/m2: ± 0.0004, ± 0.1%
	3 — 30 cd/m2: ± 0.0008, ± 0.1%
	0.1 — 3 cd/m2: ± 0.0012, ± 2%
Inter-instrument Agreement	Chromaticity: ± 0.004
	Luminance: ± 5%
Interface	USB HID
Power	Powered through USB interface

Part Number	Description
92-2721-00	Sencore OTC1000 ColorPro Optical Tri-stimulus Color Analyzer

SENCORE PR570 POWERITE II

Identify And Troubleshoot Virtually Any AC Supply Problem!

- Insure your safety and the safety of your test instruments whenever servicing electronic products
- Have complete confidence your AC line is right with the AC line monitor
- Watch voltage levels and current draw with simultaneous current and voltage displays
- Conquer AC power source problems plus startup, shutdown, and regulator failures with a digitally accurate and variable 0-140 volt AC supply
- An adjustable current trip feature minimizes expensive parts damage by automatically removing AC power when excessive current is being drawn
- Test AC outlets with an exclusive receptacle checker to ensure correct earth grounding for the highest level of safety
- Protect your customers from electrical shock and protect your business from lawsuit with an automatic, auto-toggling AC line and safety ground leakage test (leakage to 10 micro amps)

SENCORE

Isolated Output	
Voltage	0-140 VAC typical at 117 VAC input, continuously variable
Current	3 amps continuous; 3-4 amps, 470 watts maximum intermittent use (5 minutes on, 5 minutes off)
Output Loading	Less than 12 volts drop in output with 3 amp load at 120 VAC.

AC Volts Functions	
AC Line Voltage	Measures & Displays the Selected Voltage. Hot to External Earth Ground, Hot to Safety Ground or Hot to Neutral.
Range	0-150
VAC Accuracy	±3% reading ±2 counts, calibrated at 117 VAC.
Resolution	1 Volt
Isolated Output Voltage	Measures and displays voltage at isolated output. Same as Line Voltage Tests.
Protection	240 VAC.

Output Current Monitor	
Meaurement	True Power
Range	0 to 470 watts
Accuracy	±5% of reading, ±2 counts
Resolution	1 watt

Adjustable Current Trip	
Range	0-4 amps
Accuracy	±10% of reading, ±20 mA
Resolution	Adjustable in 10 mA increments
Trip Time	0.3 seconds max. with 200% overload

Hot Chassis Test	
Measurement	Ties high and low lead of primary together and measures leakage to exposed metal with power off.
Range	0 to 1999 µA
Accuracy	±3% of reading, ±2 counts
Resolution	1 µA
Protection	150 mA RMS, 150 V max

Safety Leakage Test	
Measurement	Referenced to either side of isolated output jack. (Automatically toggles high and low line and opens and closes safety ground and displays highest reading.)
Range	0 to 1999 µA
Accuracy	±3% of reading, ±2 counts
Resolution	1 µA
Protection	150 mA RMS, 150 V max
Cal Check	100 µA, ±3% of reading, ±2 counts with isolated output at 120 VAC

Protection	
AC Input	4 amps, type 3AG slo-blow fuse
Isolated Input	Adjustable current trip, 1 to 4 amps

General	
Size	6" x 11.5" x 12" (15.2 x 25.4 x 29.2 cm)
HWD Weight	22 lbs. (10 kg)
Power	105 to 125 VAC, 60 Hz, 4 amps idle current with no output load

Part Number	Description
92-0312-00	Sencore PR570 PowerRite II

SENCORE CM2125 COMPUTER MONITOR ANALYZER

- Completely Test And Troubleshoot High ResolutionAnd Multi-Scan Computer Monitors From The Input Connector To The CRT!
- A complete, easy-to-use, high resolution computer monitor analyzer
- Special sync-locked signal substitutor for pinpointing monitor circuit problems
- Innovative performance pattern generator
- Patented “ringer” and HV multiplier tester that finds defective:
  - yokes
  - integrated high voltage transformers (IHVT)
  - switching transformers
- Integrated 2,000 volt DCV and PPV meter eliminates the need for a DVM for complete one-unit troubleshooting
- A fully programmable scan frequency and pixel resolution RGB video generator
  - bandwidth to 125 MHz and 2048 x 2048 pixels
  - compatible with TTL, analog, and ECL video types
  - 70 monitor setup memory locations (43 preprogrammed)
  - outputs protected to prevent damage from defective computer monitors
- “Hook-up” adapters available

Part Number	Description
92-0303-00	Sencore CM2125 Computer Monitor Analyzer

SENCORE HA325 HORIZONTAL OUTPUT & FLYBACK TESTER

- With one simple hookup, the HA325 quickly identifies what is working and what isn’t, without a schematic on any CRT based display
- Automatically analyzes the horizontal output circuits and tells you if they are good or bad and suggests the parts you need to test and repair on the display
- Improves the skill of your service technicians for faster more efficient repairs. Find the horizontal output transistor or IHVT (high voltage transformer), hook up the leads and the HA 325 automatically makes the analysis
- Cuts down on replacement repair costs. Replacing parts that aren’t bad can be very expensive especially when parts have to be ordered and the game remains down while parts are on order
- The HA325 helps you to quickly and accurately determine defective parts in the horizontal output circuits

Part Number	Description
92-0314-00	Sencore HA325 Horizontal Output & Flyback Tester

SENCORE LC103 REZOLVER™ IN-CIRCUIT CAPACITOR AND INDUCTOR ANALYZER

- Automatically tells you when further out-of-circuit tests are required.
- Tests SMT components “in-circuit” and accurately with exclusive, time-saving test accessories
- Makes all tests, compares the results to EIA standards, and tells you “GOOD” or “BAD” – automatically
- Analyzes capacitors for all four failures out-of-circuit:
  - Value from 1 pF to 20 F
  - Equivalent series resistance
  - Dielectric absorption
  - Leakage with up to 1,000 volts
- Analys inductors with exclusive patented tests for:
  - Values from 0.1 uH to 20 H
  - Opens or shorts
  - Even one shorted turn with patented “Ringer” test
- Tests SCRs and triacs with optional SCR250 accessory

LC103 Condensed Specifications - In-Circuit Tests (Capacitors & Inductors):	
Dynamic in-circuit tests to determine whether the component is good or bad.	
Component Types	Electrolytic, double layer lytic, tantalum, ceramic, and other capacitors; Yokes, flybacks, switching transformers, and coils
Inductor Range	3.18 uH to 3.18 H
Capacitor Range	0.002 uF to 20,000 uF
Accuracy	Same as Out-of-Circuit tests for known good inductors and capacitors with no parallel current paths
Suggest Removal Indication	Initiated when AC test differs from DC test by more than 20%, or if low level DCR test indicates a leakage path greater than 20% of charge current for capacitors.

Part Number	Description
92-0300-00	Sencore LC103 Rezolver™ In-Circuit

SENCORE HA2500 UNIVERSAL HORIZONTAL ANALYZER

Now Everything You Need To Localize Horizontal And B+ Supply Defects In Computer Monitors In Less Time And More Profitably Than Ever Before!

- Unique frequency lock and variable horizontal frequency use allows you to quickly service all horizontal circuits no matter the frequency
- Patented "ringer" proves the condition of flybacks and yokes in seconds - even a single shorted turn
- Variable-current limited & protected B+ substitute power supply permits testing of horizontal stages even when the power supply is dead
- Exclusive "Horizontal Output Load Test" makes setup and testing a snap - even without applying AC power for more accurate estimates, fewer damaged replacement parts, and faster diagnosis and repair
- Exclusive "Dynamic Tests" help you analyze the horizontal circuit in powered-up conditions to catch even subtle defects in the power supply, noise, and drive signal
- Portable and field rugged to go on location when bringing the defective product to your bench isn't feasible

SENCORE

HA2500 Condensed Specifications:

All specifications allow for 20 minutes of warm-up and are guaranteed at 15 to 35 degrees C.

Horizontal Frequency Generator	
Function	Squarewave generator for Load Tests and Sub Drive functions
Frequency Range	15 kHz to 125 kHz

External Sync Input	
Input Signals	Horizontal Sync, Composite Sync, Composite Analog Video (± Polarity)
Frequency Range	15 kHz - 125 kHz
Sensitivity	Composite Analog Video > .5 VPP Horiz. or Composite Sync > 2 VPP

Horizontal Output Load Test B+ Power Supply	
Voltage Range	0 - 18 VDC ± 0.5 volts
Current Limit	250 mA ± 10%

Horizontal Output Load Test Setup	
Excitation Drive	Squarewave 50% duty cycle ± 2%
B+ Volts Range	0 - 19.9 volts
VPP Range	autoranged 0 - 400 VPP

Horizontal Output Load Tests	
B+ mA Range	0 - 250 mA
Time µS Range	0.1 µS - 50 µS
Time µS Trigger Level	5% ± 1% of pos. pulses with VPP > 10 VPP

Ringer Test	
Function	Approximate coil "Q" determined by exciting the coil and counting ringing cycles to a damped level

Dynamic Tests (Collector or Drain Meter)	
VDC Range	Autoranged, 0- 400 volts
VPP Range	Autoranged, 0 VPP to 1500 VPP
Time µS Range	0 - 50 µS
Time µS Trigger Level	5% ± 1% of pulse VPP >20 VPP

Dynamic Tests (Base or Gate Meter)	
VPP Range	0 VPP to 50 VPP

Dynamic Tests (Horizontal Driver Test)	
Function	Measures the horizontal driver stage output current capability by simulating a low impedance base/emitter transistor junction
Base mA Range	0 - 2000 mA

Dynamic Tests (Sub Drive)	
Function	Substitute drive optimized to properly drive the base or gate of any horizontal output transistor
Base Sub Output	Squarewave 50%, -2/+6% duty cycle
Gate Sub Output	Squarewave, 50% duty cycle ±2%

Substitute B+ Supply	
Voltage Range	30 volts to 180 volts
Power Output	2 amps ± 10% to 40 volts, 80 watts ± 10% over 40 volts
Power Limit Range	3 watt (min.) to 80 watt

General	
Floating Ground Isolation	600 volts (DC + peak AC) from "-" terminal to chassis ground with 500 µA
Digital Display	Vacuum fluorescent matrix, 40 x 2
AC Power	105 to 125 VAC 50/60 Hz. May be factory converted to 220 VAC
Size	6" X 11.5" X 15.5" (15.2 X 29.1 X 39.3 cm) HWD
Weight	14 lbs. (6.4 kg.)

Part Number	Description
92-0313-00	Sencore HA2500 Universal

SENCORE CR7000 “BEAM-RITE” MONITOR ANALYZER AND REJUVENATOR

Easily Test and Restore CRTs With The Most Complete Tests Available

- Guaranteed to restore one to two years of extra CRT life
- Keeps older monitors “revenue productive”
- Accurately tests all CRTs to manufacturer specifications, including all gaming and amusement CRTs, all surveillance and sport book CRTs, and all projection CRTs; over 6000 types!
- Complete testing and rejuvenation takes less than 9 minutes at the game site
- 1 year Sencore warranty on parts and labor
- Toll FREE technical support at 1-800-SENCORE
- The easiest to use CRT tester on the market
- Simply connect one of the six supplied adapters to test virtually all new CRTs without setting and resetting cumbersome setup switches
- Tests all three guns of color CRTs, with simultaneous display of test results
- All test results are displayed with interpretation-free “Good/Bad” results
- The most accurate and thorough tests of any CRT tester
- Exclusive sliding “Good/Bad” scale duplicates manufacturer’s test for the most accurate test results available
- Exclusive “Low Level” and “High Level” tracking tests locate color tracking problems
- Detects all gun element shorts or leakage
- The safest and most effective restoration techniques available
- “Progressive Restoration” guarantees the safest possible restoration
- Six levels of “Progressive Restoration”
- Self-limiting shorts removal function
- Three times the restoration range of other testers providing mild current for marginal guns all the way to the Rejuv level for tough jobs
- Newly designed sockets allow easy connection to hard-to-reach CRTs
- New socket design allows the user to test projection TVs and computer monitors faster and easier

Part Number	Description
92-0299-00	Sencore CR7000 Beam-Rite Monitor

EDS 88A CAP ANALYZER

- Check Any Electrolytic Capacitor “In-Circuit” With 100% Accuracy In 3 Seconds
- Solving problems caused by electrolytics has never been easier, now that you can locate these bad capacitors easily without having to unsolder them, and without spending time troubleshooting, by using the CapAnalyzer 88A Series II
- The CapAnalyzer 88A checks electrolytic capacitors in-circuit for both ESR and DCR with no unsoldering.
- It is the only capacitor tester that discharges the cap, checks it for low DC Resistance (DCR), reads out high-frequency Equivalent Series Resistance (ESR) and compares your readings to industry standards on the three-color chart right on the front panel.
- The included one-handed tweezer probe allows testing of both normal and surface-mounted electrolytics and uses coaxial cable instead of normal test-probe wire for stable readings on small capacitors
- 3 year manufacturer warranty
- Made in the U.S.A

Part Number	Description
92-0972-00	EDS 88A Cap Analyzer

HOBBES RIBBON CABLE TESTER

New

- Designed to test the most commonly used flat cables for wiring continuity, opens shorts, any mis-wiring
- An intelligent CPU will memorize the correct wiring configuration for a flat cable, thus enabling mass production cable assemblies to test one cable after another for pass or fail status

- Excellent tester for system integrators to perform inexpensive tests on internal PC cables
- Nylon carrying case included
- Powered by 9V battery (not included)

Specifications	
Model No.	258894
Connectors	TX: IDC 50/40/34/26/10 Male
	DB15 Male DB9 Female
	RX: IDC 50/40/34/16/10 Male DB 25 M/F
Control SW	READ, UP, DOWN, TEST
Display	LDC display with back light
Extension Port	2*40 pins IDC male connectors
Power	9V DC battery or 9V DC 150mA Power Adapter
Dimensions	205 L x 134 W x 35 H mm
Weight	1.76 lbs

Part Number	Description
92-3322-00	Hobbes Ribbon Cable Tester

DIGITAL MULTIMETER WITH AUTOMATIC POLARITY FUNCTION

- Easy to read 3 1/2 digit LCD display
- Measurements: DC current up to 10A, AC and DC voltage up to 600V, resistance up to 2 Mohm
- Diode, transistor and continuity test with buzzer
- Data-hold function and backlight
- Protective yellow holster included
- Dimensions: 2.7” x 5.4” x 1.2”
- Operates on one 9V battery (included)
- Low battery indicator
- Overload protected
- Includes red and black test leads, instruction manual
- Velleman Ref. No. DVM850BL
- High quality at an amazing price!

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Specifications	
DC Voltage	200m / 2 / 0 / 100
AC Voltage	200 / 600 DC
Current	200µ / 2m / 20m 200m / 10A
Resistance	200 / 2k / 20k 200k / 2M

Part Number	Description
49-6122-00	Digital Multimeter with Automatic Polarity Function

VELLEMEN HEAT SHRINK TUBING KIT

- Perfect for insulating exposed wires, wires soldered to terminals, corrosion proofing of metallic rods and fiber optic cables
- Halogen and dioxine free
- Tubing is flame retardant
- Kit Includes:
  1 x 120mm (10 pcs)
  2 x 120mm (10 pcs)
  4 x 120mm (5 pcs)
  6 x 120mm (5 pcs)
  9 x 120mm (5 pcs)
  12 x 120mm (5 pcs)

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Specifications	
Color	Black
Shrinking temp	90°C
Max. Temp	120°C
Shrinking ratio	1: 2
Dielectric strength	15kV/mm

Part Number	Description
49-2831-00	Velleman Heat Shrink Tubing Kit

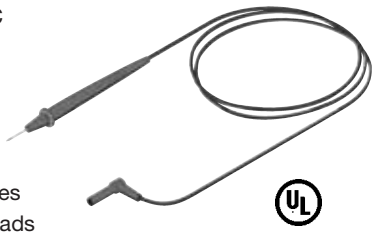
15” JUMPER WIRES WITH MINIATURE ALLIGATOR CLIPS

- 10 Jumper wires, 27 AWG, 15” long
- Handy test leads with insulated alligator clips attached to ends
- Ideal for breadboarding, experiments, temporary hookups
- Package contains black, red, white, green jumpers and yellow jumpers

Part Number	Description
95-1809-00	15” Jumper Wires with Miniature Alligator Clips

FLUKE HARD POINT TEST LEAD SET

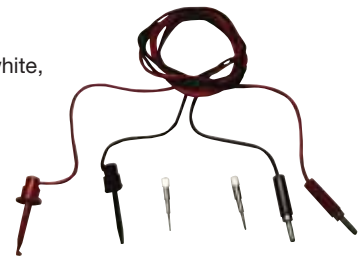
- Comfort grip probe with PVC insulated test leads
- Extremely hard alloy tips resist wear
- Cat III, 1000V, 10A
- UL listed
- Distinctive comfort grip probes
- Economical PVC insulated leads



Part Number	Description
49-1762-00	Hard Point Test Lead Set

HEAVY-DUTY TEST LEAD SET

- 5 leads per set
- Alligator clips on both ends
- Colors for each cord kit are white, green, black, yellow and red
- 22” Length



Part Number	Description
95-0051-00	22” Heavy Duty Test Lead Set

PAN HEAD PHILLIPS MACHINE SCREWS

- Packed per 100 pieces

Part Number	Description	Finish
35-0257-00	2-56 x 1/4	Zinc
43-0065-00	4-40 x 1/8	Zinc
95-0003-00	4-40 x 1/4	Zinc
43-0902-00	4-40 x 5/16	Zinc
43-0137-00	4-40 x 1/2	Zinc
43-0158-00	4-40 x 3/4	Zinc
43-0772-00	6-32 x 1/4	Zinc
43-0371-00	6-32 x 3/4	Zinc
43-0409-00	8-32 x 1/4	Zinc
43-0307-00	8-32 x 3/4	Zinc
43-0184-00	10-32 x 3/8	Zinc

HEX HEAD STEEL KEP NUTS

- Packed per 100 pieces

Part Number	Description	Finish
43-1018-00	4-40	Zinc
42-0082-00	8-32	Zinc
90-1204-00	10-24	Black
42-0093-00	10-32	Zinc
43-0984-00	5/16	Zinc
43-0175-00	4MM	Zinc

HEX HEAD STEEL NUTS

- Packed per 100 pieces

Part Number	Description	Finish
43-0010-00	4-40	Zinc
43-0094-00	6-32	Black
43-1292-00	8-32	Zinc
43-0968-00	10-24	Zinc
43-0903-00	1/4-20	Zinc

NYLOCK ELASTIC STOP NUT

- Packed per 100 pieces
- Zinc plated

Part Number	Description
43-1322-00	4-40
43-0211-00	8-32
43-0723-00	10-24
43-1005-00	10-32

CARRIAGE BOLTS

- Carbon Steel
- Packed per 100 pieces

Part Number	Description
43-0021-01	8-32 x 1/2
43-0049-00	10-24 x 1/2
43-0410-00	10-24 x 1
43-0462-00	10-24 x 1-1/2
43-0149-00	10-24 x 2

E-RINGS

- Packed per 100 pieces
- Zinc plated

Part Number	Description
43-0528-00	3/32" ID
43-0529-00	5/32" ID
43-0009-00	1/8" ID

RIVETS

- Packed per 100 pieces

Part Number	Mfg. Ref. No.	Description
43-0933-00	1/8" x 1/4" w/1/4" Head	Aluminum
43-0855-00	1/8" x 3/16" w/1/4" Head	Aluminum
43-0932-00	1/8" x 1/2" w/1/4" Head	Aluminum
43-0930-00	1/8" x 3/8" w/1/4" Head	Aluminum
43-0854-00	3/16" x 5/8"w/3/8" Head	Aluminum
43-0856-00	1/8" x 1/8" w/1/4" Head	Steel
43-0859-00	1/8" x 1/4" w/1/4" Head	Steel
43-0860-00	3/16" x 3/8" w/3/8" Head	Steel

AGC FUSES - FAST BLOW TYPE

- 1/4" diameter x 1-1/4" length
- Various amperages
- Fast acting to protect equipment
- Made in the U.S.A.
- Packaged in boxes of 5
- Minimum order 10
- Sold in boxes only

Part Number	Amps	Volts
49-1232-00	1/10	250
49-0785-00	1/8	250
49-0349-00	1/4	250
49-0621-00	1/2	250
49-0118-00	1	250
49-0625-00	1-1/2	250
49-0119-00	2	250
49-0627-00	2-1/2	250
49-0024-00	3	250
49-0615-00	4	250
49-0120-00	5	250
49-0296-00	6	250
49-0613-00	7	250
49-0566-00	8	250
49-0560-00	10	250
49-0277-00	15	32
49-0278-00	20	32

GMA FUSES – FAST BLOW TYPE

- 5 x 20 mm
- Various amperages
- Commonly used within pinball machines
- Fast acting to protect electronic equipment
- Made in the U.S.A.
- Packaged in boxes of 5
- Minimum order 10
- Sold in boxes only

Part Number	Amps	Volts
49-0593-00	300mA	250
49-0498-00	1	250
49-1271-00	1.25	250
49-0669-00	1.5	250
49-1335-00	1.5 ** With Leads	250
49-0497-00	2	250
49-1333-00	2 ** With Leads	250
49-0670-00	2.5	250
49-0496-00	3	250
49-0626-00	3.15	125
49-0589-00	4	125
49-0495-00	5	125
49-0652-00	6	125
49-0786-00	7	125
49-0590-00	8	125
49-0290-00	10	125
49-0788-00	15	125

MDL FUSES – SLOW BLOW TYPE

- 1/4"diameter x 1-1/4" length
- Various amperages
- Dual-element, slow blowing type to prevent needless fuse blows
- Made in the U.S.A.
- Packaged in boxes of 5
- Minimum order 10
- Sold in boxes only

Part Number	Amps	Volts
49-0608-00	1/8	250
49-0551-00	1/4	250
49-0494-00	3/8	250
49-0553-00	1/2	250
49-0604-00	6/10	250
49-0552-00	3/4	250
49-0602-00	8/10	250
49-0111-00	1	250
49-0564-00	1-1/2	250
49-0112-00	2	250
49-0113-00	2-1/2	250
49-0030-00	3	250
49-0579-00	3-2/10	250
49-0933-00	3-1/2	250
49-0114-00	4	250
49-0025-00	5	250
49-0286-00	6	250
49-0580-00	6-1/4	250
49-0115-00	7	250
49-0596-00	7-1/2	250
49-0116-00	8	250
49-0117-00	10	32
49-0595-00	12	32
49-0592-00	15	32
49-0591-00	20	32
49-0594-00	25	32

GMQ FUSES – SLOW BLOW TYPE

- Various amperages
- Size rejecting, only allows fuse to be used within proper fuseholder
- Made in the U.S.A.
- Packaged in boxes of 5
- Minimum order 10
- Sold in boxes only

Part Number	Amps	Volts
49-0640-00	1	300
49-0641-00	3-2/10	300
49-0642-00	6-1/4	300

GMC, GMD FUSES

- 5 x 20 mm
- GMC- Medium Blow Type
- GMD- Slow Blow Type
- Various amperages
- Commonly used within pinball machines
- Dual-element, slow blowing type to prevent needless fuse blows
- Made in the U.S.A.
- Packaged in boxes of 5
- Minimum order 10
- Sold in boxes only

COOPER Bussmann

Part Number	Type	Amps	Volts
49-0839-00	GMC	250mA	250
49-0837-00	GMC	2.5	250
80-0016-01	GMC	3	250
49-0284-00	GMC	3.15	250
49-0836-00	GMC	4	125
49-0835-00	GMC	5	125
49-0619-00	GMC	6.3	125
49-0620-00	GMC	10	125
49-5062-00	GMD	1.6	250
49-0616-00	GMD	2	250
49-0617-00	GMD	2.5	250
49-0618-00	GMD	4	250

FUSE RACK

- Free standing durable yellow plastic display
- Holds 102 packages of 5 fuses (510 Fuses total)
- Fuses sold separately

COOPER Bussmann

Part Number	Description
49-0582-00	Fuse Rack, Empty

FUSE PULLER

- Makes it easier to install & remove fuses in those hard to reach areas
- For use on all 1/4"diameter glass fuses
- Eliminates risk of breaking fuses or damaging fuse blocks

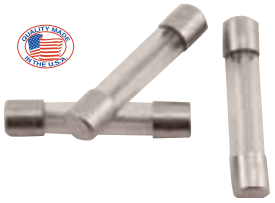
COOPER Bussmann

Part Number	Description
49-0628-00	Fuse Puller Tool

BULK FUSES

- Made in U.S.A.
- Packaged in boxes of 100
- Sold in boxes only

COOPER Bussmann



MDL Bulk Fuses - Slow Blow Type (1/4" diameter x 1-1/4" length)		
Part Number	**Amps**	**Volts**
49-0112-00B	2	250
49-0113-00B	2-1/2	250
49-0030-00B	3	250
49-0114-00B	4	250
49-0025-00B	5	250
49-0286-00B	6	250
49-0115-00B	7	250
49-0116-00B	8	250
49-0117-00B	10	32
AGC Bulk Fuses - Fast Blow Type (1/4" diameter x 1-1/4" length)		
Part Number	**Amps**	**Volts**
49-0118-00B	1	250
49-0119-00B	2	250
49-0024-00B	3	250
49-0296-00B	6	250
49-0566-00B	8	250
49-0560-00B	10	250
GMA Bulk Fuses - Fast Blow Type (5 x 20mm)		
Part Number	**Amps**	**Volts**
49-0498-00B	1	250
49-0497-00B	2	250
49-0591-00B	4	125
49-0495-00B	5	125
49-0290-00B	10	125

PANEL MOUNT FUSEHOLDER

- Designed to virtually eliminate the possibility of electrical shock
- Maximum panel thickness of 5/16"
- For 1/4" x 1-1/4" fuses
- .187" Quick Connect Terminals

Part Number	Amps	Volts
49-0023-00	20	300

PC MOUNT FUSEHOLDER

- For use with printed circuit boards
- Use with 1/4" diameter fuses with end stops

Part Number	Description
49-1272-00	PC Mount Fuseholder

FUSE ASSORTMENT KITS

- Assortment of 75 of the most common Fast-Blow and Slow-Blow fuses
- Kit includes handy clear plastic box
- Each 5 pack of fuses has their own section with index
- A must for every service repairman
- See chart for listing of amperages

General Purpose Fuse Kit				
Part Number 49-0568-00 Contains the following fuses:				
Replacement Part Number	**Quantity**	**Amps**	**Type**	**Volts**
49-0621-00	5	1/2	Fast-Acting	250
49-0118-00	5	1	Fast-Acting	250
49-0625-00	5	1-1/2	Fast-Acting	250
49-0119-00	10	2	Fast-Acting	250
49-0024-00	10	3	Fast-Acting	250.
49-0120-00	5	5	Fast-Acting	250
49-0553-00	5	1/2	Slow-Blow	250
49-0111-00	5	1	Slow-Blow	250
49-0112-00	10	2	Slow-Blow	250
49-0030-00	10	3	Slow-Blow	250
49-0025-00	5	5	Slow-Blow	250
Pinball Fuse Kit				
Part Number 49-0569-00 Contains the following fuses:				
Replacement Part Number	**Quantity**	**Amps**	**Type**	**Volts**
49-0566-00	5	8	Fast-Acting	250
49-0547-00	5	3/4	Fast-Acting	250
49-0494-00	5	3/8	Slow-Blow	250
49-0113-00	5	2-1/2	Slow-Blow	250
49-0030-00	25	3	Slow-Blow	250
49-0025-00	15	5	Slow-Blow	250
49-0115-00	5	7	Slow-Blow	250
49-0116-00	5	8	Slow-Blow	250

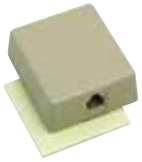
FUSE BLOCKS

- For 1/4" x 1-1/4" fuses
- Features individual barriers to reinforce the fuse clips while providing greater protection against clip damage and electrical shock
- Minimum order 10

Part Number	Type	Terminal Type
49-0563-00	Single	Solder
49-0395-00	Triple	3/16" Q.C

SCREW TYPE MODULAR JACK ASSEMBLY

- Single jack with snap cover
- Double sided sticker
- Mounting screws included
- Gold plated contacts
- Wiring: 6P4C - USOC; 8P8C - AT&T



Part Number	Description
32-0091-00	6P4C Modular Jack Assembly
32-0092-00	8P8C Modular Jack Assembly

CAT6 SHIELDED 8-PORT HARMONICA PATCH BLOCK

- Used for daisy chaining banks of games for player tracking and progressive applications
- All ports are parallel configured
- Uses Tyco CAT6 100% shielded array
- Triple layer of protection for 100% shielded circuitry

  1. 100% inner shielded connection of each position to terminate both shielded and unshielded data cables

  2. Surrounded by a heavy-duty case to shield entire circuitry while adding strength and durability

  3. Packaged in a thick wall outer insulating acrylic to avoid ground potential differences with other electronic equipment
- Certified to CAT6 performance standards

Part Number	Description
70-5357-00	CAT6 Shielded 8-Port Harmonica Patch Block

CAT 5E COUPLER

- For Category 5 Enhanced cable
- Gold plated contacts
- Connects two cords
- Color: Black

Part Number	Description
49-1729-00	CAT 5E Couplerr

CAT 5E SHIELDED PATCH CORDS

- Enhanced 350MBPS
- Shielded RJ45 connectors on each end
- Foil shielded and polyester shielded
- Stranded
- Snagless and molded boots
- Color: Grey

Part Number	Description
64-0064-00	10' CAT 5E Patch Cord

RJ11 DUPLEX ADAPTER

- Splits one line into two
- Ivory color
- Gold plated contacts
- 6P4C plug, 2 6P4C jacks

Part Number	Description
32-0090-00	RJ11 Duplex Adapter

EAGLE SUPER SPEC 90° ANGLE PLUG

- Allows equipment to be moved closer to wall
- 12A-125V, 2-Pole, 3-Wire Grounding
- 8 rotating positions to allow placement of cord in most convenient location
- UL & CSA listed
- Black color
- Made in the U.S.A.

Part Number	Description
91-4000-00	Eagle Super Spec 90° Angle Plug

EAGLE THERMOPLASTIC PLUG & CONNECTOR

- Solid brass plug blades are firmly embedded into body
- Terminal screws are large head type for easy wiring, separated by barriers to prevent flashover or short circuits
- Strain relief clamps are superior designs, providing a secure mechanical grip
- Yellow thermoplastic is rigid and virtually unbreakable and can be used for hard service applications
- Dead-Front Construction
- 2-Pole, 3-Wire Grounding with cord clamp
- Cord diameter .250" - .655"
- UL & CSA listed, NEMA 5-15(15A), 5-20(20A)
- 125 Volts
- Made in the U.S.A.

Plug Male

Connector Female

Part Number 15 Amp type	Diameter	Length	Eagle P/N
27-1003-00 Male	1-17/32"	1-3/4"	4867
27-1004-00 Female	1- 7/32	2-19/32"	4887

EAGLE EASY INSTALL PLUG

- 10A, 125V
- Cord size: 18-2 SPT-1
- Color: brown

Part Number	Description
91-1168-10	Easy Install Plug

TRIPLE GROUND PLUG

- Converts single receptacle to 3 outlets
- 15A, 125VAC, NEMA 5-15
- 1" deep
- Color: Brown

Part Number	Description
49-0952-00	Triple Ground Plug

EAGLE ARMORED PLUG & CONNECTOR

- Steel clamps and armor are heavily plated for corrosion resistance
- Armor is knurled for easy gripping
- Solid brass plug blades are firmly embedded into body
- Terminal screws are large head type for easy wiring, separated by barriers to prevent flashover or short circuits
- Strain relief clamps are superior designs, providing a secure mechanical grip
- Vinyl Dead-Front Construction
- 2-Pole, 3-Wire Grounding with cord clamp
- Cord diameter .250" - .625"
- UL & CSA listed, NEMA 5-15
- 15 AMP, 125 Volts
- Made in the U.S.A.

Armored Plug Male

Armored Connector Female

15 Amp type (125V) Part Number	Diameter	Length	Eagle P/N
91-1168-00 Armored Plug Male	1-1/2"	2"	2867
91-1169-00 Armored Connector Female	1-1/2"	2-19/32"	4887

HEAVY-DUTY CUBE TAP

- 3-socket, 3-wire, 15A 125V
- Color: brown

Part Number	Description
43-0527-00	Heavy Duty Cube Tap

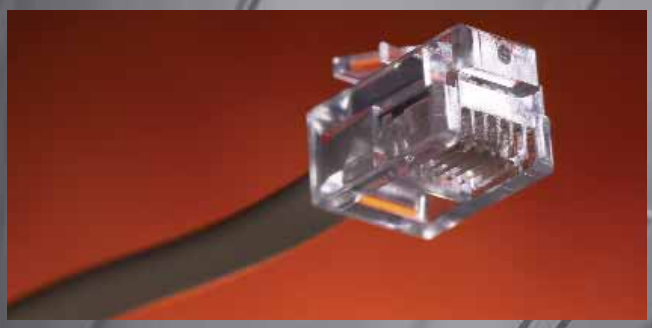
EAGLE 5266 POLYCARBONATE PLUG

- Impact-resistant housing with brass plug blades
- Separate terminal chambers with clear cover
- UL listed & CSA approved

Part Number	Description
27-0153-00	Eagle 5266 Polycarbonate Plug

SUZO HAPP

Your Source for Quality Wire, Cable and Accessories



- Hook-up Wire
- Cat 5 Cable
- Cat 5E Cable
- Cat 6 Cable
- Fiber Optic Cable
- Fiber Optic Cleaning Kits
- Connectors
- Power Cable
- Power Cords
- Tools
- Fiber Optic Termination Kits

Our Experienced Sales Staff is waiting to help you with your cabling needs. Please have the following information handy so you can be assisted in a timely manner.

- Type: Cat 5, Cat 5E, Cat 6, Fiber Optic
- Color
- Gauge
- How Many Pairs
- Jacket: Plenum or Non-Plenum, PVC
- Shielded or Non-Shielded
- Size of spool: 500 ft. or 1,000 ft.
- Specific brands are available, what is your choice

HEAT SHRINK TUBING

- Black polyolefin tubing
- 100 ft. per spool
- Sold by the foot
- Minimum order 100 ft

Part Number	Diameter
95-0623-00	1/16"
95-0624-00	1/8"
95-0622-00	3/16"

Part Number	Diameter
95-0625-00	1/4"
81-0001-00	1/2"
95-0888-00	3/4"

VELLEMAN HEAT SHRINK TUBING KIT

- Perfect for insulating exposed wires, wires soldered to terminals, corrosion proofing of metallic rods and fiber optic cables
- Halogen and dioxine free
- Tubing is flame retardant
- Each kit contains the following tubing:

  1 x 120mm (10 pcs) 2 x 120mm (10 pcs)
  4 x 120mm (5 pcs) 6 x 120mm (5 pcs)
  9 x 120mm (5 pcs) 12 x 120mm (5 pcs)

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- Product specifications:
  Color: Black
  Shrinking temp: 90°C
  Max. Temp: 120°C
  Shrinking ratio: 1:2
  Dielectric strength: 15kV/mm

Part Number	Description
49-2831-00	Velleman Heat Shrink

SPIRAL CUT WRAP

- Polyethylene material
- Nominal O.D. .250"
- Nominal wall .031"
- Nominal pitch 3/8"
- Maximum bundle 2"
- Sold per foot; minimum order 100 ft
- 100 ft. per spool

Part Number	Description
43-1019-00	Spiral Cut Wrap

BLACK CORRUGATED SPLIT LOOM

- Ideal use in casino gaming, and computer applications
- Enables you to maintain a safe and well-organized working environment
- Also known as flex tubing
- Made from polyethylene
- Heat resistant up to 200˚ F
- Also offers protection from water, snow, ice and salt
- Sold in 100ft rolls, which allows cutting to any length
- Available in three sizes: 3/8", 1-1/4" and 2" diameter
- Tubing is silted, which allows one to protect, organize and conceal exposed electrical wires, wire harnesses, cables and hoses by putting them into a neat bundle

64-0095-00

64-0154-00

Part Number	Diameter
64-0095-00	2" Diameter Black Corrugated Split Loom
64-0095-125	1-1/4" Diameter Black Corrugated Split Loom
64-0134-00	3/8" Diameter Black Corrugated Split Loom
64-0154-00	Split Wire Loom Installation Tool

HEAVY DUTY LINE CORD

- Stranded 3-wire
- Black rubber cover
- Ideal for use in power cords for machines
- 250' per roll
- Minimum order 250'

Part Number	Gauge	Volts	Diameter
80-0045-16G	1-17/32"	600	.435
80-1147-00	14	300	.350

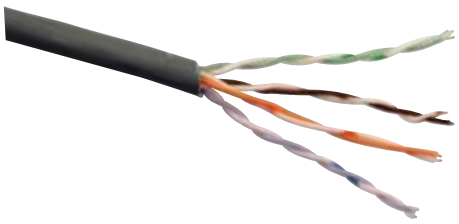
HOOK-UP WIRE

- Stranded wire
- 16, 18, 20, 22 and 26 gauge available
- Various colors available
- Custom color codes can be special ordered
- Sold in 500 ft. or 1000 ft. rolls
- UL listed

Part Number	Gauge	Feet per roll	Color Code
64-0055-00	16	500	Green
64-0056-00	16	500	White
64-0057-00	16	500	Black
49-1726-00	18	1000	Black
49-1116-00	20	500	Red
49-1098-00	20	500	Blue
49-1092-00	20	500	Yellow
49-1088-00	20	500	Green
49-1086-00	20	500	White
49-1110-00	20	500	Black
49-1207-00	22	500	Red
49-1149-00	22	500	Green
49-1121-00	22	500	Orange
49-1172-00	22	500	Black

CAT5 CABLE

- 24 AWG solid bare copper
- Four unbounded twisted pairs
- 1,000 foot put-ups



Part Number	Type	Belden No	Shielded	Plenum	Color
49-1472-00	CAT5	1624P	Yes	Yes	Gray
49-1473-00	CAT5	1624P	Yes	Yes	Blue
43-1735-00	CAT5	1624P	Yes	Yes	Red
49-0964-1624R	CAT5	1624R	Yes	No	Blue
49-1361-00	CAT5E	1585A	No	Yes	Gray
49-1470-00	CAT5E	1585A	No	Yes	Blue
49-0129-00	CAT5E	1583A	No	No	Gray

LANROVERPRO™ CAT 5 TESTER WITH LED DISPLAY

- High performance cable length measurement CAT 5 tester that identifies multiple faults clearly without interpretation
- Tests for shorts, opens, miswires, reversals and split pairs
- Has one-ended testing with pre-test for fast result, clear wire mapping form displayed on 2-line, 16 character LCD display
- The LanRoverPRO™ has a convenient snap together case for easy storage and convenient patch cable testing
- Auto-off/auto-on. Provides up to 10 times better battery life than other testers
- One-ended testing with Pre-Test mode for fast results
- Built-in tone generator mode with selectable tones and pair capability
- This unit includes a carrying case and patch cables

Part Number	Description
92-1135-00	LanRoverPRO™ CAT 5 Tester with LCD Display

CAT 5 CABLE JACKET STRIPPER

- Designed for Cat 5/5E cables only
- Will not knick inner conductors
- Long life blade
- Durable high impact plastic housing
- Easy to use, no adjustments necessary
- Length: 3.5”, weight: 23 grams
- Molded from yellow plastic to make it easier to find. No more lost tools!

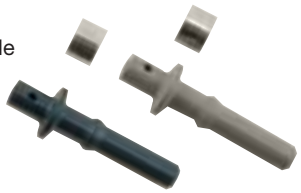
Part Number	Description
92-0613-00	Cat 5 Cable Jacket Stripper

PUNCHDOWN TOOL WITH BLADE

- Spring loaded impact
- Hi-Lo settings
- Spare blade storage in handle
- Blades / Handle inter-changeable with Harris-Dracon 814 tool
- Type 110

Part Number	Description
92-0901-00	Punchdown Tool With Blade

SIMPLEX CONNECTORS



- For plastic optical fiber cable
- Used in Ticket-In / Ticket-Out Cable
- Simplex connector provides a quick and stable connection for applications that require a component-to-connector retention force of 8 Newtons (1.8 lb.)
- Crimp ring included
- Available in gray or blue

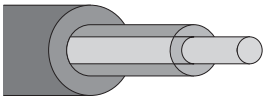
Part Number	Description
HFBR-4501	Simplex Connector, Gray
HFBR-4511	Simplex Connector, Blue

SPRING LOADED WIRE CONNECTORS

- Positive grip design
- For either solid or stranded wire
- Well suited for all types of splices
- Color-coded to make selection on the job easier
- Molded of pliable, fire resistant thermoplastic that is virtually indestructible
- Unique, fully-seated square-wire spring on the inside forms its own threads to draw the connector completely onto wire combinations
- Wide-throat skirt to guard against flashover
- Rated to 105˚ C
- UL and CSA listed

Part Number	Description	Color	Wire Gauge
43-0484-00	Spring Loaded Wire Connectors	Gray	22-16
43-0483-00	Spring Loaded Wire Connectors	Orange	22-14

FIBER OPTIC CABLE



- Glass Fiber Optic Cable used for progressive signage and player tracking systems
- Price per foot
- Sold per roll
- Call for roll size availability (roll sizes vary)
- Quantity discounts available

Part Number	Description
49-1752-00	Fiber Optic Cable With Glass

FIBER OPTIC TERMINATION KIT

- Kit includes:
  - cleave tool
  - crimp tool
  - fiber stripper
  - cable stripper
  - scissors

Part Number	Description
92-1004-00	Fiber Optic Termination Kit

FIBER OPTIC TOOL KIT

- Kit includes: crimper, nick-free strippers, wire cutters, cutting scissors, true view fiber scope kit, polishing disks, component box, swabs, alcohol bottle, syringe, & tweezers, zippered case

Part Number	Description
92-0977-00	Fiber Optic Tool Kit

EZ-RJ45® TERMINATION KIT
EZ-RJ45® CRIMP TOOL

Kit Includes:

(1) EZ-RJ45® Crimp Tool 92-0612-00

(50) EZ-RJ45® Connectors 92-0611-00

(1) Laminated instruction sheet

EZ-RJ45® Crimp Tool

This high quality crimp tool is designed to quickly crimp and cut the wires of the EZ-RJ45® Connector in one easy simple operation!

- Works on most other RJ-11, RJ-12 and RJ-45 connectors
- Precision ground crimp dies
- Straight action cut and crimp performs the best crimp
- Full cycle ratcheting mechanism provides consistent terminations every time
- Crimps and cuts the wire in one cycle
- Built in wire cutter and stripper
- High strength, long life steel frame
- Rust resistant black oxide coating
- Superior quality at an economical price
- Use with EZ-RJ45® connector (92-0611-00)
- Length 8", weight 1lb.

EZ-RJ45® Connectors

The new patented EZ-RJ45® connector simplifies the twisted pair terminations by allowing the wires to be inserted through the connector and out the front. This allows the technician to easily verify the proper wiring order. Termination is made easier by pulling the connector down over the cable jacket and seating it tightly in the rear of the connector. Reducing the distance between the wire twists and contacts improves performance!

- Simple one-piece design – no bars or liners
- Easy to verify wire sequence
- Reduces scrap, no wasted crimps
- Faster terminations
- More reliable, higher performance
- Compatible with most RJ-45 crimp tools except for AMP
- Crimp with the patented EZ-RJ45® Crimp Tool (92-0612-00) for even faster more reliable terminations
- Use in category 3, 5, 5E and 6
- FCC compliant
- Sold by box of 50

Part Number	Description
92-0609-00	EZ-RJ45® Termination Kit
92-0612-00	EZ-RJ45® Crimp Tool Only
92-0611-00	EZ-RJ45® Unshielded Connectors Only (Min Box of 50)
92-2851-00	EZ-RJ45® Shielded Connectors Only (Min box of 50)

MODULAR RJ45 PLUG

- For use with solid conductor round cable
- 8 position, 8 contacts
- Unshielded
- Packed and Sold in Bags of 100

Part Number	Description
27-1349-00	Modular RJ45 Plug

EZ-RJ45® CONNECTORS

The new patented EZ-RJ45® connector simplifies the twisted pair terminations by allowing the wires to be inserted through the connector and out the front. This allows the technician to easily verify the proper wiring order. Termination is made easier by pulling the connector down over the cable jacket and seating it tightly in the rear of the connector. Reducing the distance between the wire twists and contacts improves performance!

- Simple one-piece design – no bars or liners
- Easy to verify wire sequence
- Reduces scrap, no wasted crimps
- Faster terminations
- More reliable, higher performance
- Compatible with most RJ-45 crimp tools except for AMP
- Crimp with the patented EZ-RJ45® Crimp Tool (92-0612-00) for even faster more reliable terminations
- Use in category 3, 5, 5E and 6
- FCC compliant
- Sold by box of 50

Part Number	Description
92-2851-00	EZ-RJ45® Connectors, Shielded (Min Box of 50)
92-0611-00	EZ-RJ45® Connectors, Unshielded
92-0612-00	EZ-RJ45® Crimp Tool Only
92-0609-00	EZ-RJ45® Termination Kit

RJ11 & RJ45 MODULAR PLUGS

- Packed and Sold in Bags of 100

32-0085-00

43-1665-00

32-0087-00

Part Number	Two Prong Stranded flat Cable Plugs
32-0085-00	RJ11 6P4C Plug
43-1665-00	RJ11 6P6C Plug
32-0087-00	RJ45 8P8C Plug
32-0095-10	RJ45 8P8C Plug, Shielded
Part Number	**Two Prong Solid Round Cable Plug**
32-0095-00	RJ45 8P8C Plug, Shielded

90° 110 STYLE MODULAR CAT 5 JACK

- Designed to be used with the 110 type punch down tool
- The 110 IDC contacts will accommodate 22-26 AWG solid wire
- Color: Blue
- The mini jack universal design will fit in most keystone hole openings such as Amp, Hubbell, Krone, ICC or other .58" x .76" standard sizes

Part Number	Description
27-1350-00	900 110 Style Modular Cat 5 Jack

POWER CORD

- 3-wire, SJT black jacket
- 8 ft. or 6 ft. long
- 3-prong plug on one end, 3-hole computer style receptacle on the other end
- UL Listed

Part Number	Description
80-0213-00	16-Gauge, 8' Long
80-1205-00	18-Gauge, 6' Long

POWER CORD

- 10 ft. length
- 3-Wire plug on one end, bare wires on other end
- 12 per case
- UL Listed

Part Number	Description
80-1200-00	Power Cord, 18-Gauge

12" POWER CORD ADAPTER WITH ROTATING PLUG

- Converts any 110V (up to 14 gauge) two or three prong plug to a 90-degree plug
- Plug also rotates 360 degrees to adapt to any outlet
- Allows placement of equipment closer to wall
- Color: Gray
- Wire: 14 gauge stranded
- UL listed

Part Number	Description
49-6241-00	12" Power Cord Adapter With Rotating Plug

POWER CORD WITH RIGHT ANGLE FEMALE PLUG

- 3-Wire, SVT black jacket
- 6 ft. long
- 125V, 10A
- UL

Part Number	Description
80-1205-RA	6Ft. Power Cord w/Right Angle Female Plug

SLENDER PLUG EXTENSION CORD

- Low profile 3-outlet extension cord
- Used for the Spintek hopper fill
- Plug is only 1/2" thick
- 13A, 125V, 1625W
- 16-gauge, 3-wire
- UL recognized

Part Number	Description
80-0328-00	Slender Plug, 3 ft.

THE 'SPIDER' POWER CORD

- A SUZO-HAPP exclusive
- Unique power cord for slot machines, video games, kiosks and other applications
- Allows connection of peripheral accessories and still have outlet free for other accessories
- Plugs into the 120 VAC power source and gives you 3 additional outlets (current 5 to 6 amps)
- Within a slot machine, such as IGT Eye Games, Game Kings, and others it allows connection of a player tracking system and a progressive sign and still have an outlet free for other 110 VAC accessories
- Within a video game, it allows connection of a 110 VAC bill validator, soldering iron or other 110 VAC accessories
- Within a kiosk, it allows connection of a 110 VAC bill validator, plug-in power supply for audio amplifier or trackball interface or other 110 VAC accessories
- Black SVT 18-gauge, 3-wire

Part Number	Description
80-1143-00	The "Spider" Power Cord

HEAVY-DUTY POWER CORD WITH 90° PLUG

- Ideal for vending machines, slot machines, amusement games and other devices
- 90° plug allows machine to be put closer to the wall
- Black SJT jacket
- UL recognized
- CSA approved
- 9 ft. 14-gauge, 3-wire or 12 ft. 16-gauge, 3-wire available

Part Number	Description
80-1200-14	Power Cord With 90° Plug, 9ft./14ga
49-0948-16	Power Cord With 90° Plug, 10ft./16ga

EXTENSION CORD

- Outer jacket will not mark floors or walls
- 16 gauge/3-wire, SJTW
- 15A/300V
- UL listed
- SJTW cords resist deterioration from moisture and abrasion
- Manufactured with stranded and cabled copper conductors and solid molded plugs for longer life

Part Number	Description
80-0300-00	15 ft. Extension Cord - Orange

ON-LINE GAME SURGE SUPPRESSOR

- Protect your on-line equipment from lightning strikes through the phone line, electrostatic discharge, faulty wiring
- Offers simultaneous protection of two dialup telephone lines (RJ45, wires 4-5 and 3-6, 260V clamping)

Perfect for any on-line game or equipment

- Golden Tee™ Golf games
- Counter top games
- Digital download jukeboxes

- 6-inch heavy gauge grounding lead
- 5-inch patch cable included
- Maximum current: 250 amps
- Instruction manual and warranty information included
- Lifetime product warranty
- Compatible with RJ11 or RJ45 style connectors

Part Number	Description
80-1248-00	On-Line Game Surge Suppressor

TRIPP LITE SWIVEL 6 SURGE SUPPRESSOR

New

- Ideal for Video Games, LCD TVs, CRTs, Vending machines, etc.
- 6 rotatable outlets allow for easier plug connection and removal
- 1200 joule rating
- Direct plug-in design converts two outlets into six by pluging into any wall outlet
- Diagnostic LEDs alert you to potential wiring or protection faults before connected equipment is damaged
- Lifetime warranty with $20,000 Ultimate Lifetime Insurance (USA & Canada Only)
- Size: 10.5” x 6” x 14”
- Color: Black

Part Number	Description
80-0631-00	Tripp Lite Swivel 6 Surge Suppressor

POWER STRIP WITH SURGE PROTECTOR

- Protect your equipment from power surges and spikes
- 6 outlets
- Lighted ON/OFF switch
- Plastic case
- UL listed

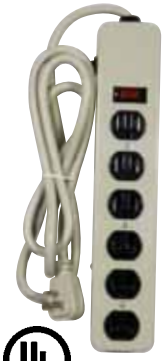
Part Number	Description
49-0963-00	4 ft. Power Strip with Surge Protector
49-1356-00	6 ft. Power Strip with Surge Protector

TRIPP LITE SUPER 7 SURGE SUPPRESSOR

- Great for slot machines, video games, vending equipment, computers, and other electronic equipment
- More Joules mean more protection - Surge energy absorption: 2,350 joules
- 7 outlets
- 7-ft. cord with space-saving right-angle plug
- $75,000 Ultimate Lifetime Insurance covers connected equipment
- Can accommodate up to 3 transformers without blocking remaining outlets
- Diagnostic LEDs indicate protection present and ground present
- EMI/RFI noise filtering
- Keyhole supports for wall mounting
- Two position on/off power switch
- Lifetime product warranty
- Size: 1.5” X 2.75” X 10.25”; UL1449, UL1363, cUL / CSA
- 12 per carton

Part Number	Description
49-5296-000	Tripp Lite Super 7 Surge Suppressor

6-OUTLET METAL POWER STRIP WITH RIGHT ANGLE PLUG



- Full 3 line surge protection
- Durable metal construction
- UL listed
- Built-in brackets for easy mounting
- Circuit breaker prevents overloading
- Rugged 6 foot 14AWG SJT cord
- Rating: 125V AC, 15 Amps, 1875W, 3 x 75 joules
- Neon light indicating ON/OFF & protection
- Right angle plug allows this power strip to be mounted in areas that are tight on space
- Protects equipment from dangerous power surges and spikes

Part Number	Description
49-0487-90	6 Outlet Power Strip w/ Right Angle Plug

7-OUTLET SURGE PROTECTOR WITH SLIDE SAFETY COVERS

- Sliding child protective covers on each outlet
- 6 ft. 14/3 power cord
- 1500 Joules
- 15 amps, 125 volts
- Spike current: 39,000A
- Clamping voltage: 330v
- EMI/RFI noise filtering
- LED surge protection indicator
- Lighted switch/circuit breaker
- UL 1363, UL 1449 and CSA listed

Part Number	Description
49-0963-40	7-Outlet Surge Protector with Slide Safety Covers

6-OUTLET POWER STRIP WITH SURGE PROTECTOR

- Ideal for rows of vending machines or games
- Protects equipment from dangerous power surges and spikes that can destroy delicate electronic circuitry
- Lighted ON, OFF switch
- Built-in resettable circuit breaker
- Built-in brackets for easy mounting
- 125V AC, 15 Amps
- Rugged 6 foot cord
- UL listed
- Durable metal construction

Part Number	Description
49-0487-00	Six Outlet Power Strip with Surge

POWER STRIP WITH SURGE PROTECTOR

- 6 outlets
- 3 ft. power cord
- Heavy duty plastic case
- 1 MOV surge protection
- L-N surge protection
- EMI/RFI noise filtration
- LED indicator, 125V AC, 15 Amps
- UL listed, CSA
- Protect your equipment from power surges and spikes
- Integrated circuit breaker switch with auto reset

Part Number	Description
49-0963-10	Power Strip with Surge Protector

SINGLE OUTLET SURGE PROTECTOR

- Prevents dangerous power surges that can destroy delicate electronic circuitry
- Indicator light signals surge protection is on
- Maximum surge dissipation: 270 Joules
- 15A-125VAC, 1875 watts rating
- Clamping voltage: 330 volts
- Maximum spike current: 4500 amps
- Maximum surge voltage: 6000 volts
- Surge protection on all three lines
- Response time: Less than 1 nanosecond
- UL listed

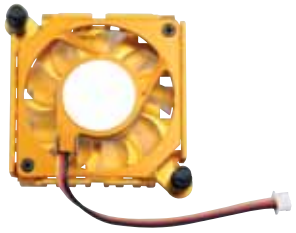
Part Number	Description
27-1007-00	Single Outlet Protector

SOCKET 7 CPU FAN

- 12VDC ball bearing fan
- 3 pin connector
- 9.21~10.3cfm
- 5000 rpm
- Noise level: 27~30dB
- Used on Sigma Slot Machines
- Dimensions: 2" x 2" x 1.25" with heat sink
- For AMD K6/K6-2/K6-III, Intel Pentium 60~266MHz, Cyrix 6x86, 6x86MX and MII and IBM 6x86 processors

Part Number	Description
80-0006-13	Socket 7 CPU Fan

CPU COOLING FAN FOR ARISTOCRAT



- Cooling fan for Aristocrat Mark VI
- 3-wire connection
- Size: 40mm X 40mm X 10mm

Part Number	Description
80-0006-62	CPU Cooling Fan for Aristocrat

3-1/2" BALL BEARING FAN

- 15/16" x 3-1/2" x 3-1/2"
- 50/60 Hz

Part Number	Description
70-0226-00	115 Volt Fan
70-0226-10	12 Volt Fan
70-0226-50	Finger Guard for 3-1/2" Fan

COOLING FAN FOR MERIT CPU

- Ball bearing fan used in Merit Megatouch for the CPU board
- Used on WMS Bluebird Machines
- 50mm x 50mm x 10mm
- 12VDC, 0.16A

Part Number	Description
80-0006-15	Cooling Fan for Merit CPU

COOLING FAN FOR MERIT XL SERIES

- Cooling fan 12V DC 1.57" x 1.57" x 0.4" Vapo bearing
- 3-wire connection

Part Number	Description
80-0006-16	Cooling fan for Merit XL Series

VGA COOLING KIT FOR SLOT MACHINES

New

Tired of Replacing Video Cards?

- Heat is a major cause of video card failures, which are expensive
- VGA cooling kit is designed to protect your video card
- Increased fan speeds help cool the video chipset faster, while the blue LEDs add a stylish accent
- As a dedicated VGA cooler, the kit includes four (4) RAM heat sinks to help displace the heat generated by the video memory, further extending the life of the card.
- Kit includes:

  - cooling fan - thermal tape
  - 4 heat sinks - thermal grease
  - 3-4 pin adaptor

Specifications:

- Voltage: DC 12V
- Fan Dimension: 40 x 40 x 10 mm
- Power: 1.45 W
- Fan Speed: 6000 R.P.M
- Airflow: 5.9 CFM
- Fan Bearing: Ball Bearing
- Weight: 77 gm
- Cooler Dimension: 75X62X15 mm
- Heat Sink Material: Copper
- Heat sink Dimension: 20X20X6 mm (4 pcs)
- Thermal Tape: 18X18 mm (4 pcs)

Recommended for:

- NVIDIA

  GeForce3 Ti 200, GeForce3 Ti 500, GeForce4 MX420, GeForce4 MX440, GeForce4 MX440 SE, GeForce4 MX420 8x, GeForce4 MX460, GeForce FX 5600, GeForce FX 5200.
- ATI

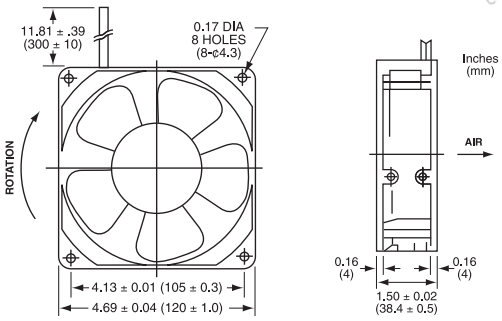
  Radeon 9200, Radeon 9200 PRO, Radeon 9500 PRO, Radeon 9600, Radeon 9600 PRO, Radeon 9700 PRO, Radeon 9800 PRO

Part Number	Description
80-0006-61	VGA Cooling Kit

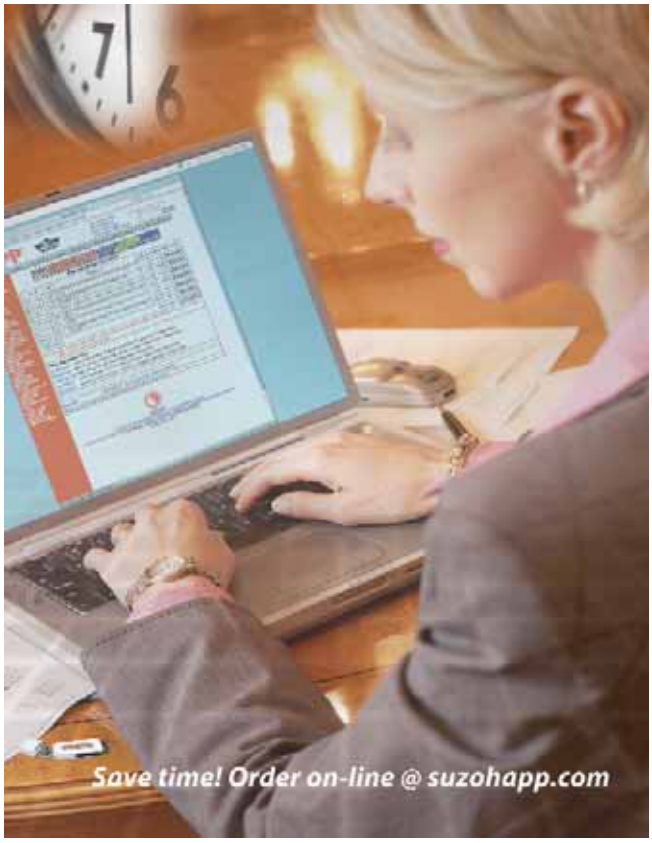
COOLING FAN

- Industry standard size 4.69" square x 1.5" deep
- Low noise; impedance protected
- 110/120V AC fan easily mounts in most equipment
- Sealed ball or sleeve bearing type
- 98-106 CFM, 2,900 - 3,200 RPM
- Cast aluminum frame

MOUNTING DIMENSIONS



Part Number	Description
80-0006-22	Fan with Sealed Ball Bearings with Wire Leads
80-0006-11	Fan with Sleeve Bearings
80-0006-20	Metal Guard for Cooling Fan



MOLEX CONNECTORS

Male Style

Female Style

43-0243-00 | 43-0452-00 | 43-0456-00 | 42-0722-00 | 43-0458-00 | 43-0459-00 | 43-0169-00

- Commonly used on all types of equipment
- Various sizes available
- Passive (friction) lock
- Minimum order 25 each
- UL File No. E-29179
- Natural Nylon Color
- 2 Different sizes (.093" and .062")

Part Number .093" Family		Molex Ref. No.	Part Number .062" Family		Molex Ref. No.
43-0250-00	2-Pin Male	03-09-2022	43-0459-00	12-Pin Female w/ Ears	03-09-1121
43-0248-00	2-Pin Female	03-09-1022	43-0460-00	15-Pin Male w/ Ears	03-09-2158
43-0243-00	3-Pin Male	03-09-2032	43-0461-00	15-Pin Female w/ Ears	03-09-1154
43-0452-00	3-Pin Female	03-09-1032	43-0015-00	2-Pin Male	03-06-2023
43-1105-00	4-Pin Male (Square)	03-09-2040	43-0444-00	2-Pin Female	03-06-1023
43-1107-00	4-Pin Female (Square)	03-09-1040	43-0017-00	3-Pin Male	03-06-2032
43-0453-00	4-Pin Male (Vertical)	03-09-2042	43-0467-00	3-Pin Female	03-06-1032
43-0255-00	4-Pin Female (Vertical)	03-09-1042	43-0468-00	4-Pin Male (Vertical)	03-06-2042
43-0454-00	4-Pin Male (Square)	03-09-2049	43-0470-00	4-Pin Male (Square)	03-06-2044
43-0455-00	4-Pin Female (Square)	03-09-1049	43-0471-00	4-Pin Female (Square)	03-06-1044
43-1108-00	6-Pin Male (Square)	19-09-2068	43-0169-00	6-Pin Male	03-06-2062
43-1106-00	6-Pin Female (Square)	19-09-1069	43-0332-00	6-Pin Female	03-06-1062
43-0491-00	6-Pin Male	03-09-2062	43-0472-00	9-Pin Male	03-06-2092
43-0456-00	6-Pin Female	03-09-1064	43-0474-00	12-Pin Male	03-06-2122
42-0722-00	9-Pin Male	03-09-2092	43-0475-00	12-Pin Female	03-06-1122
43-0143-00	9-Pin Female	03-09-1094	43-0478-00	15-Pin Male w/ Ears	03-06-2151
43-0458-00	12-Pin Male w/ Ears	03-09-2122	43-0479-00	15-Pin Female w/ Ears	03-06-6155

MOLEX PINS (TERMINALS)

Enlarged to show detail

43-0144-00 | 42-0721-00

- Minimum order 100
- Molex quality
- Pins/Terminals required for use in above Molex connectors
- Snap-fit design allows for reliability and ease of installation

Part Number .093" Family	Molex Ref. No.
42-0721-00 Male .093" Pin (Terminal)	02-09-2118
43-0144-00 Female .093" Pin (Terminal)	02-09-1119

Enlarged to show detail

43-0016-00 | 43-0161-00

Part Number .062" Family	Molex Ref. No.
43-0016-00 Male .062" Pin (Terminal)	02-06-2103
43-0161-00 Female .062" Pin (Terminal)	02-06-1103

MOLEX PIN (TERMINAL) EXTRACTOR TOOL

- Allows easy removal of Molex pins from connector
- A must for every toolbox
- For servicing of Molex connectors

92-0039-00

11-03-0003

11-03-0002

11-03-0006

Part Number	Description	Molex Ref. No.
11-03-0006	Molex Extractor Tool for .093" Pins	11-03-0006
11-03-0002	Molex Extractor Tool for .062" Pins	11-03-0002
11-03-0003	Molex Extractor Tool for .156" Pins	11-03-0003
92-0039-00	Molex Extractor Tool for .165" Pins	11-03-0044

MOLEX TRIFURCON CRIMP STYLE TERMINAL

- For wire size 18-24 AWG
- Molex ref. no 08-50-0189
- Grips on three sides instead of only one
- For use with all female connectors with .156 centers
- Sold in Packs of 100

Part Number	Description
43-0515-00	Molex Trifurconl Crimp-Style Terminal

MOLEX CRIMP-STYLE TERMINAL

- For use with all Molex female connectors with .156 centers
- For wire size 18-24 AWG
- Molex ref. no 08-50-0106
- Sold in Packs of 100

Part Number	Description
43-0523-00	Molex Crimp-Style Terminal

MOLEX CRIMP-STYLE TERMINAL

- For use with female connectors with .100 centers
- For wire size 22-30 AWG
- Molex ref. no 08-50-0114
- Sold in Packs of 100

Part Number	Description
43-0524-00	Molex Crimp-Style Terminal

MOLEX C-GRID FEMALE TERMINAL

- Used on bill validator harness
- Used with crimp housing 43-0817-00
- .100 pitch
- 250V 3 amp
- Ref. No. 16-02-0069
- Sold in packs of 100

Part Number	Description
43-0816-00	C-Grid Female Terminal

MOLEX MINI-FIT TERMINAL

- Female terminal, 18-24 AWG
- Molex ref. no. 39-00-0039
- Sold in Packs of 100

Part Number	Description
43-1224-00	Molex Mini-Fit Terminal

MOLEX MINI-FIT JR RECEPTACLE

- Dual row
- Molex ref. no. 39-01-2060
- Sold in Packs of 25

Part Number	Description
43-1225-00	Molex Mini-Fit Jr Receptacle
43-1225-01	Strain Relief 15-04-0296

MOLEX 2-PIN POWER CONNECTORS

- Male plug mates to power input for both Suzo-Happ and Wells Gardner monitors (2-pin)
- Sold in Packs of 25

Part Number	Description	Molex Ref. No.
43-0536-00	2-Pin Male w/o ears .093 centers	19-09-1029
43-0543-00	2-Pin Female .093 centers	19-09-2029

MOLEX FEMALE HOUSINGS

- Used with .156 Header Wafer Connectors
- Sold in Packs of 25

Part Number	Description	Molex Ref. No.
43-0698-00	Molex 10-Pin Female Housing	09-50-7201
43-0923-00	Molex 10-Pin Female Housing	09-50-3101
43-0792-00	Molex 5-Pin Female Housing	09-50-3051
43-0924-00	Molex 4-Pin Female Housing	09-50-3041

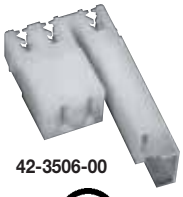
MOLEX C-GRID CRIMP HOUSING AND PIN

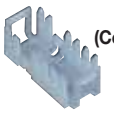
- Used on bill validator harness
- .100 pitch
- Single row version D
- Back ribs
- 3-circuit
- Sold in Packs of 25

Part Number	Description	Molex Ref. No.
43-0817-00	C-Grid Crimp Housing	50-57-9303
43-1223-00	Pin for C-Grid Crimp Housing	16-02-0086

SWITCH CONNECTOR

- Use on popular miniature snap switches such as Cherry D4, Omron V10G and Microswitch V3
- Fits .187" or .250" terminals for 22 ga. wire
- Single plug convenience for easy on and easy off maintenance
- eliminates incorrect wiring with single disconnects
- Housing and contact design allows for "end" or "through" terminations.
- Eliminates the need for double wire crimp
- Cover (42-3506-01) provides added strain relief
- UL recognized
- Sold in Packs of 25





Part Number	Description
42-3506-00	Molex Switch Connector
42-3506-01	Molex Connector Cover

AMP TERMINAL PINS

- Sold in Packs of 100

Enlarged to show detail

Part Number	Description	Molex Ref. No.
43-1116-00	Amp Pin	1-66103-7
43-1115-00	Amp Socket	1-66105-8
43-0794-00	Amp Pin	170363-1
43-0793-00	Amp Socket	170365-1
43-0801-00	Moltex Male C-Grid	16-02-0115
43-0800-00	Molex Female C-Grid	16-02-0103
43-0521-00	Amp Pin	350547-1
43-0522-00	Amp Socket	350550-1

AMP INSERTION/EXTRACTION TOOL

- For AMP connectors

Part Number	Description	Molex Ref. No.
43-0998-00	AMP Insertion Tool	91002-1
92-0272-00	AMP Extraction Tool	455822-2
822154-1	AMP Extraction Tool	822154-1

MONITOR EXTENSION CABLE

- Used as VGA or SVGA monitor extension
- Extend your existing short monitor cable to provide useful flexibility
- DB15 Male on one end and DB15 Female on the other
- Ferrite cores on each end for noise suppression
- Shielded cable with multi-coax construction provides a sharp, clear display
- 6' overall length, 15 pin

Part Number	Description
55-0282-00	Monitor Extension Cable, 6'

USB EXTENSION CABLE

- Used to extend a USB device such as a trackball, keyboard, printer, modem, scanner, digital camera, etc.
- Extends the A connection (flat end) of a USB cable
- Shielded PVC jacketed cable
- 6' overall length

Part Number	Description
55-0278-00	USB Extension Cable, 6'

AMP PICABOND CRIMP TOOL

Part Number	Description	Ref. No.
43-0795-00	Amp Picabond Crimp Tool	244271-1
43-0796-00	Red Striped Connector	60947-3
43-0797-00	Green Striped Connector	609454-4

AMP PLUG

- 2-pin configuration
- Sold in Packs of 25

43-0799-00

Part Number	Description	Ref. No.
43-0799-00	2-pin Amp Plug	1-480698

AMP MTA-100 CLOSED END HOUSINGS

- .100 centers
- Red plugs for 22 AWG wire
- Mates with all 100 post header assemblies
- Sold in Packs of 25

Part Number	No. Pins	Ref. No.
43-0810-00	6	640440-6
43-0808-00	10	1-640440-0

AMP MTA-156 CLOSED END HOUSINGS

- .156 centers
- Red plugs for 22 AWG wire
- Mates with all .156 post header assemblies
- Sold in Packs of 25

Part Number	No. Pins	Ref. No.
43-0806-00	2	643193-2
43-0804-00	4	640428-4

TAP SPLICES

- Fully insulated
- Packed 25 per box
- Minimum order: 1 Box
- Easy to install - No stripping or twisting
- Sold in Packs of 25

Part Number	Color	AWG
43-1132-00	Blue	14-18
43-1131-00	Red	18-22

CONNECTORS

- 2 wire
- Just trim wires, insert and crimp
- Sold in Boxes of 100

3M

Part Number	Color	AWG
43-0782-00	Green Tap Bridge	19-26
43-0781-00	Red 2 to 3-Wire Butt Splice	19-26
43-0783-10	Yellow 2-Wire Butt Splice	22-26

FLAG TERMINALS

- Fully insulated
- Color: Red
- .250 female lug
- For use with 18-22 AWG wire
- Sold in bags of 100

Part Number	Description
43-0827-00	Flag Terminals

CRIMP STYLE WIRE TERMINALS

- Fully insulated nylon terminals
- Pack of 100
- 14-22 AWG
- Sold in Packs of 100

Part Number	Description
43-0789-00	Crimp-Style Wire Terminals

SCOTCHLOK™ CONNECTORS

- Fully insulated
- Easy to install – no stripping or twisting

3M

43-0824-00

43-0823-00

43-0822-00

Part Number	3M No.	Color	Description	AWG	Minimum Qty
43-0824-00	560B	Dark Blue	Scotchlok™	14-18	100
43-0823-00	558	Red	Scotchlok™	14-18	50
43-0822-00	951	Red	T-Tap (.250)	18-22	50

8" CRIMPING TOOL - WIRE STRIPPER BOLT CUTTER

- Crimps 22-18, 16-14, & 12-10 AWG terminals and connectors
- Color-coded crimp teeth for fast and accurate crimping
- AWG numbered wire stripper for 10, 12, 14, 16, 18, & 20-22 gauge wire
- Bolt cutter for 8-32, 10-24, 10-32, 6-32, & 4-40 threads
- An affordable, 4-way crimping/stripping tool
- Length: 8"

Part Number	Description
92-0274-00	8" Crimping Tool

CRIMPING/WIRE STRIPPER/BOLT CUTTING HAND TOOL

- Clean cutting wire cutter
- Wire Stripper for 10, 12, 14, 16, 18, and 20 gauge wire
- Bolt Cutter for 8-32, 10-24, 10-32, 6-32, and 4-40 threads
- Crimping tool for .093" Molex pins (terminals)
- Ideal for prototype work, small production volumes and repair jobs

Part Number	Description
11-03-0004	Hand Crimping/Wire Stripper/Bolt Cutting Tool

SARGEANTS CRIMPING TOOL

- For crimping .062, .093, .100, .156 and JST pins
- Ref. No. 1028CT

Part Number	Description
92-0032-00	Sargeants Crimping Tool

FORK TERMINALS

- Simply insert stripped wire and crimp
- Various sizes available
- Color-coded for easy identification:
  RED-22 to 18 AWG
  BLUE-16 to 14 AWG
- Sold per pkg. of 100

Part Number	Color	Stud	AWG
43-0680-00 Insulated Fork Term.	Red	6	22-18
43-0681-00 Insulated Fork Term.	Blue	8	16-14

RING TERMINALS

- Vinyl insulated butt seam
- Sold in packs of 100

Part Number	Stud	AWG
43-0784-00	6	18-22
43-0785-00	8	18-22

FEMALE QUICK DISCONNECT TERMINALS

- Translucent insulator provides fast visual check of the wire connection
- Wire stop prevents insertion of over-stripped wires
- Sold in packs of 100
- Color coded for easy identification:
  Red (22 to 18 AWG), Blue (16 to 14 AWG)

Part Number	Description
43-0401-000	.110" Female Fully Insulated Quick Disconnect for use on 18-22 AWG Wire
43-0538-00	.187" Female Fully Insulated Quick Disconnect for use on 18-22 AWG Wire
43-1229-00	.187" Female Fully Insulated Quick Disconnect for use on 14-16 AWG Wire
43-0539-00	.250" Female Fully Insulated Quick Disconnect for use on 18-22 AWG Wire
43-0541-00	.250" Female Fully Insulated Quick Disconnect for use on 14-16 AWG Wire

FULLY INSULATED MALE QUICK DISCONNECTS

- Fully vinyl insulated butt seam
- Sold in packs of 100

Part Number	Color	AWG	Terminal
43-0525-00	Red	18-22	.250
43-1269-00	Blue	14-16	.250

PIGGY-BACK TERMINAL

- Insulated
- Terminal size .250
- Sold in packs of 100

Part Number	Description
42-2098-00	Piggy-back Terminal

SEMI-INSULATED FEMALE QUICK DISCONNECTS

- Vinyl insulated butt seam
- Sold in packs of 100

Part Number	Color	AWG	Terminal
43-0682-00	Red	18-22	.187
43-0787-00	Red	18-22	.110
43-1070-00	Red	18-22	.250
43-0542-00	Blue	14-16	.187
43-0674-00	Blue	14-16	.250

SEMI-INSULATED MALE QUICK DISCONNECTS

- Vinyl insulated butt seam
- Terminal size: .250
- Sold in packs of 100

Part Number	Color	AWG	Terminal
43-0826-00	Red	18-22	.250

CLOSED END CONNECTORS

- An easy yet safe way to connect wires together, simply insert stripped wires and crimp
- Listed by: UL (E13288) & CSA (LR7189)
- Insulated
- Sold in packs of 100

Part Number	Description
43-0174-00	Closed End Connector, 22-14 AWG
43-0780-00	Closed End Connector 16-10 AWG

BUTT CONNECTORS

- Insulated for additional protection
- Simply insert stripped wire and crimp
- Various sizes available
- Sold in packs of 100
- Color-coded to make selection on the job easier

Part Number	Color	AWG
43-0421-00 Butt Connector	Red	22-18
43-0422-00 Butt Connector	Blue	16-14
43-0423-00 Butt Connector	Yellow	12-10

EDGE CONNECTORS

- Dual row connector
- Available in 20, 56, and 7 Pin Configurations

Part Number	Description
49-0011-00	56 Pin "Jamma" Connector with Solder Terminals
49-0011-56	56 Pin "Jamma" Connector for Push-In Terminals (w/out
49-0276-00	Push-In Terminal for 49-0011-56 Edge Connector

VELCRO® ONE-WRAP CABLE TIES

- Hundreds of uses
- Ideal for cord and cable control
- Can be reused numerous times
- Size: 1/2" wide x 6" long
- Color: Black
- Minimum order 10

Part Number	Description
90-0011-00	Velcro® One-Wrap Cable Ties

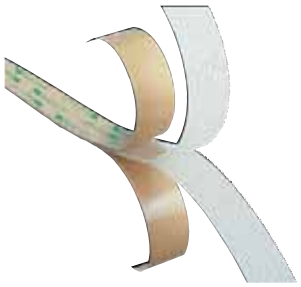
VELCRO HOOK AND LOOP TAPE

- For fastening a wide variety of items
- Adhesive backing
- .75", 1" or 2" wide tape
- Color: Black
- 25 yards. per roll
- Sold per roll

Part Number	Description
90-0003-03	.75" Velcro Loop Side Only
90-0004-03	.75" Velcro Hook Side Only
90-0003-01	1" Velcro Loop Side Only
90-0004-01	1" Velcro Hook Side Only
90-0003-02	2" Velcro Loop Side Only

3M DUAL LOCK™ LOW PROFILE RECLOSABLE FASTENER

- Pressure sensitive adhesive backing bonds to many surfaces
- Numerous interlocking mushroom-shaped stems positively "snap" together
- Clear acrylic adhesive, -20°F to 150°F
- Sold by the foot; minimum order 25 ft
- 1" wide, clear color
- 75 ft per roll
- 3 rolls per case
- Unlike some reclosable fasteners, this is self-mating so only one roll needed reducing inventory
- Light-weight, thin profile (0.067", 1.7mm)
- Stemmed surfaces glide over each other for easy positioning prior to pressing and snapping together



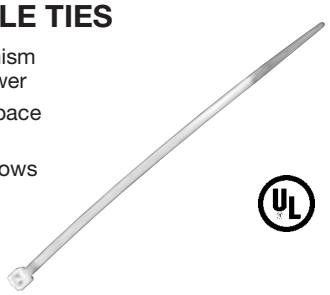
Uses include:

Electronics, exhibits, trade shows, Point of Purchase, framing
Anywhere you need easy access or quick assembly

Part Number	Description
90-0015-00	3M Dual Lock™ Low Profile Reclosable Fastener

CABLE TIES

- Patented dual locking mechanism facilitates superior locking power
- Low-profile head conserves space and reduces snagging
- Flexible Nylon construction allows ease of use
- Various colors available
- UL approved Nylon
- Sold per bag of 1,000



Part Number	Length	Max. Bundle Dia.	Color	Tensile Strength
90-1034-00	4"	13/16"	Natural	18 lbs
90-1036-00	6"	1-1/2"	White	30 lbs
90-1036-03	7.5"	2"	Black	50 lbs
90-1038-00	8"	2-3/16"	Natural	50 lbs
90-1038-10	8"	2-3/16	Red	50 lbs
90-1038-12	8"	2-3/16	Blue	50 lbs
90-1038-13	8"	2-3/16	Green	50 lbs
90-1038-15	8"	2-3/16	Yellow	50 lbs
90-1038-16	8"	2-3/16	Black	50 lbs
90-0063-00	11"	3"	Natural	55 lbs

CABLE TIES WITH MOUNTING HOLE

- Same features as cable ties above
- Mounting hole allows wires to be bundled and secured via #10 screw
- UL Recognized
- Sold per bag of 1,000

Part Number	Length	Max. Bundle Dia.	Color	Tensile Strength	Screw Size
90-1037-00	8"	1-3/4"	Natural	50 lbs	#10

CABLE CLAMPS

- Plastic clamps for channeling cable and wire
- Maximum operating temperature -60° F to 275° F
- Sold 100 per bag, except 1" sold in bags of 50

Part Number	Inside Diameter
90-0002-00	3/16"
90-0007-00	1/4"
90-0009-00	5/16"
90-0010-00	3/8"
90-0006-00	1/2"

P.C.B. SUPPORT SPACERS

- Sold in packs of 100

60-0901-00

60-0902-00

Part Number	Description
60-0901-00	7 Round Stand Off 1/4" Diameter
60-0902-00	Snap-in Stand Off 1/4"

650PC CABLE TIE ASSORTMENT KIT

- Low-profile head conserves space and reduces snagging
- Flexible nylon construction
- Various sizes available (see chart below for breakdown)

Assortment contains the following Cable Ties:

Qty	Size	Color	Tensile Strength
100	4"	Natural	18lbs
50	4"	Red	18lbs
50	4"	Blue	18lbs
50	4"	Yellow	18lbs
50	4"	Green	18lbs
300	7"	Natural	40lbs
50	11"	Natural	50lbs

Part Number	Description
90-1030-03	650 Pc. Cable Tie Assortment

VASTECH DELUXE ATX POWER SUPPLY TESTER

- Save time troubleshooting annoying output problems
- Connects to any ATX power supply
- Four connectors tests all outputs and signals
- LED status lights indicate which components pass or fail
- 1-year warranty

Part Number	Description
92-2084-00	Vastech Deluxe ATX Power Supply Tester

POWERLINE FILTER

New

- Eliminates power spikes
- 6 AMP plug type with IEC connector
- .250 terminals
- 115/250V 6A
- UL recognized

Part Number	Description
YB06T1	Powerline Filter

POWERLINE FILTERS

- Eliminates power spikes
- .250" quick connect terminals
- 115/250V
- UL recognized

49-1003-00

Part Number	Description
49-1003-00	Powerline Filter, 10 AMP
49-5084-00	Powerline Filter, 6 AMP
YK03T1	Powerline Filter, 3 AMP

MOUNTING PADS FOR CABLE TIES

- Adhesive backed to allow flexibility in mounting and securing wires and cables
- Simply peel paper backing and apply to clean dry surface
- Natural color
- Four-Way insertion - 3/4" pad
- Two-Way insertion - 1" pad
- Sold per bag of 100

Part Number	Description	For use with
90-1031-00	3/4" x 3/4" Mounting Pad	18#, 30#
90-1032-00	1" x 1" Mounting Pad	18#, 30#, 50#, 75#

SANTRONICS AC SENSOR

- Patented outstanding safety equipment – locates defective grounds, energized circuits, induced voltage
- Maintenance, service and electrician personnel need this tool daily!
- Fits in shirt pocket
- Senses voltage without metallic contact
- UL listed-#39F5, tested and approved for public safety
- All outer surfaces are non-conductive for safety
- Detects 50-600 Volts AC
- Choice of OSHA
- Manufactured in the USA

Glows RED when contact is made with:

- Insulated wire with positive AC voltage
- Hot side of receptacle when voltage is present
- Each side of fuse, when checking if fuse is functional

Will not glow RED when contact is made with:

- Shielded cable
- Neutral side of wall outlet or cord (if wired correctly)

Part Number	Description
92-0281-00	Santronics AC Sensor

STREAMLITE STYLUS™ LED FLASHLIGHT

- 100,000 hour lifetime, high-intensity Light Emitting Diode (LED), solid state bulb
- LED available in Arctic White (12,000 mcd), Ice Blue (5,000 mcd), or Red (16,200 mcd)
- 6000 series tempered aircraft aluminum, anodized finish; non-slip knurled grip
- Run time over 10 hours
- Waterproof, individually serialized, momentary “blink” switch and constant “on”, pocket clip
- Weight is only 1.1 ounces with batteries
- Requires three AAAA alkaline batteries (Included)
- Color black; .38” D x 6.21”L
- Shipped with Glare Guard (49-6126-00)

Part Number	Description
49-1229-02	Streamlite Stylus™ White Led Flashlite
49-1229-05	Streamlite Stylus™ Blue Led Flashlite
49-1229-07	Streamlite Stylus™ Red Led Flashlite
49-1229-03	Replacement AAAA Batteries (Pk of 6)
49-6126-00	Glare Guard

STREAMLITE STYLUS ‘REACH’ LED FLASHLIGHT WITH FLEXIBLE CABLE

- Color: Black
- Run time of up to 60 hours
- Lifetime Warranty
- UL Listed
- Flexible cable extension for tight, hard-to-reach areas
- 100,000-hour lifetime, high-intensity Light Emitting Diode (LED), solid-state bulb
- 6000 series tempered aircraft aluminum, anodized finish; non-slip knurled grip
- Copper-core cable is shielded and insulated with PVC
- Waterproof; individually serialized; momentary “blink” switch and constant “on”; pocket clip
- White LED. Most popular for all-around use. Close to natural light, for “true color”
- Weight is only 1.7 ounces with batteries
- .38” (Dia.); Folded: 7” (L); Extended: 14” (L)
- Requires three AAAA alkaline batteries (included)

Part Number	Description
49-1229-09	Streamlight Stylus ‘Reach’ LED Flashlight
49-1229-03	Replacement AAAA Batteries – Pkg. Of 6

STREAMLITE SCORPION™ XENON FLASHLIGHT

- Compact lithium powered flashlight, only 4.9” long and weighs 4.4 oz
- Xenon gas filled bi-pin bulb provides up to 6,500 candlepower
- Triple action tail cap switch
- Variable spot to flood focus
- Rubber-armored sleeve over aluminum body
- Unbreakable polycarbonate lens
- Belt clip attachment
- Includes two long life 3 volt lithium batteries and one spare bulb
- Color: Black

SCORPION®
STREAMLIGHT

WOW, Is this one BRIGHT

Part Number	Description
49-6123-00	Streamlight ScorpionTM Xenon Flashlight
49-6125-00	Replacement 3 Volt Lithium Batteries (Pk of 2)
49-6124-00	Replacement Xenon Bulb

UV 14-LED FLASHLIGHT

New

- 14 super bright UV LEDs make it easy to check ultraviolet inks in currency and IDs
- Toggle on/off switch at base for continuous use
- Three AAA batteries included
- High-strength aluminum case
- Color: Black
- Burn time: 15 hours
- Size: 4-1/4” long x 1-3/16” diameter
- Net weight: 2.88 oz.

Part Number	Description
49-8516-00	UV 14-LED Flashlight

STREAMLITE TWIN-TASK™ LITHIUM FLASHLIGHT

- 100,000-hour LEDs should never need replacement
- Patented LED/Xenon combination for super brightness
- Dual modes allow you to switch between 3 LED and Xenon lighting

Part Number	Description
49-1229-08	Streamlight Twin-Task Lithium Flashlight

HANGING 24 LED SERVICE LIGHT

New

- A must when working inside a machine or anywhere light is needed
- 24 LEDs project bright light in small areas
- Easily hangs with attached hanger which folds away in recessed back
- Or can be mounted inside machine with the magnet on back
- Size: 2-3/4" diameter
- Plastic construction
- Includes 3 AAA batteries

Part Number	Description
91-5461-00	Hanging 24 LED Service Light

MINI MAGLITE® FLASHLIGHTS

- High quality flashlights
- Batteries included
- Color: black
- 12 per box

MAG LITE®

49-1215-00

49-1216-00

Part Number	Description
49-1216-00	AA Size
49-1215-00	AAA Size
92-0227-00	Nylon Flashlight Holster

EVEREADY® POCKET PEN LIGHT

- Handy flashlight comes with pocket clip
- Durable metal case
- Long life push button switch
- Bright concentrated beam
- Eveready Ref. No. 6212-1ACS
- Uses 2 AAA batteries (included)
- Replacement lamp # 222
- Length: 5.48"
- Shipped in assorted colors, *specific colors cannot be requested*

EVEREADY®

Part Number	Description
49-1217-00	Eveready Pocket Flashlight

MINI MAGLITE LED FLASHLIGHT

- A Powerful Projecting Beam that focuses simply by rotating the head.
- Balanced Optics™, combining a highly refined reflector with a quality LED, for a brilliant adjustable beam.
- Intelligent Energy Source Management (patent pending) balancing high brightness with efficient power usage.
- Patented Candle Mode
- Rugged, machined aluminum construction with knurled design
- Anodized inside and out for improved corrosion insurance.
- Water and shock resistant
- All Mag® flashlights are designed, patented and manufactured in the U.S.A. May contain some imported components
- Holster and 2 batteries included

MAG LITE®

Part Number	Description
49-1216-10	Mini Maglite LED Flashlight

EVEREADY INDUSTRIAL MAGNET LIGHT

- Super bright Krypton bulb
- Performance and quality at a value price
- Ergonomically designed
- Hanger Ring
- Handy magnet lets you keep the flashlight convenient
- Easy slide switch
- Anti-roll design
- Chemical resistant
- Uses 2 D cell batteries (sold separately)
- Bright yellow color, Faceted reflector

EVEREADY®

Part Number	Description
49-1218-00	Eveready Industrial Magnetlight

8-LED FLASHLIGHT

- Eight (8) ultra bright LED's
- Shatterproof LED bulbs do not need replacing
- LED bulbs are energy efficient providing long battery life
- Two (2) AA batteries included
- Nylon pouch with belt loop included
- Sturdy aluminum design
- 5-1/2" long
- Less than 1" in diameter

Part Number	Description
49-1216-8L-8	8-LED Flashlight

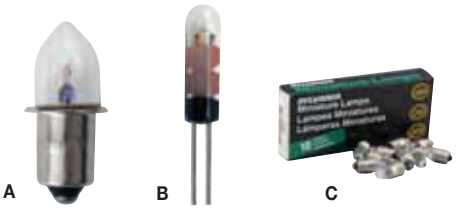
BATTERY CHARGER

- Charges 2 or 4 AA, AAA, C, D or up to two 9 volt batteries
- 3 hour charge
- Batteries sold separately
- Sold in packages only
- Nickel Metal Hydri batteries can be stored charged or uncharged

Part Number	Description
49-3116-00	Battery Charger
49-0848-00	D Battery (Min. 2)
49-0850-00	AA Battery (Min. 4)
49-0852-00	AAA Battery (Min. 4)
49-0851-00	9V Battery

FLASHLIGHT BULBS

- Long lasting
- High quality
- For use in various flashlight types



Part Number	Type	Description
49-1225-00	A	For 2 D Cells (Pk. of 2)
49-1230-00	B	Mini-Maglite Bulb For AA/AAA Flashlights (Pk. of 2)
91-1125-00	C	222 Lamp

LITHIUM BATTERIES

- Various types

Part Number	Type	Ref. No.	Description
49-0855-00	A	MN02	Laser Lithium 3V, PC mount
27-0086-00	B	CR2025	Lithium, 3V coin cell
49-0857-00	B	CR2032	Lithium, coin cell
27-0022-00	B	BR2325	Lithium, 3V coin cell
49-0858-00	B	BR2330	Lithium, coin cell
49-5096-01	B	CR2354	Lithium, coin cell
49-5096-00	C	BR2325-1HC	Lithium, 3V with leads
49-1273-00	C	BR2325-T2	Lithium, 3V with leads
49-0857-10	C	CR2032-T14-1	Lithium 3V, PC mount

PROCELL® PROFESSIONAL ALKALINE BATTERIES

- Manufactured by Duracell®
- Power Pro technology delivers more power for longer life
- PROCELL® alkaline batteries provide the same performance and quality as DURACELL® batteries
- Long lasting power providing superior dependability – even after five years of storage
- Lasts up to five times longer than super heavy duty batteries
- Long service life at high drain discharges
- Operates reliably in temperature extremes of –20˚ C to 54˚ C
- Date coded to ensure freshness
- Contains no added mercury

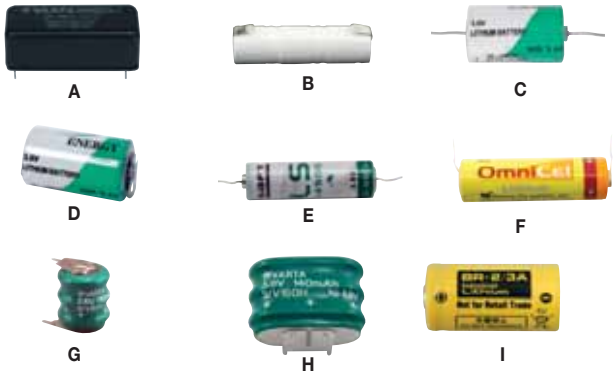
DURACELL PROCELL LAMPES DE POCHE PROFESSIONNELLES

Part Number	Description
49-6171-00	AA Alkaline Battery
49-6172-00	AAA Alkaline Battery
49-6173-00	C Alkaline Battery
49-6174-00	D Alkaline Battery
49-6175-00	9V Alkaline Battery

SPECIALTY BATTERIES

New

- Used on MPU Boards
- Serves as memory backup for many gaming applications



Part Number	Type	Ref. No.	Description
27-1032-00	A	2/V 150H	2.4V Varta Ni-Cad, with DIP pins
80-0185-00	B	100103	3.6V DC Ni-Cad, AA w/tabs
27-1002-00	C	TL2150/P	3.6V Lithium w/pigtails, 1/2AA
27-1236-00	D	TL5101/T	3.6V Lithium w/tabs, 1/2AA
27-1040-00	E	TL5104P	3.6V Lithium w/pigtails, AA
49-0856-00	F	TL5104T	3.6V Lithium w/tabs, AA
49-0861-00	G	3/V 80H	3.6V 70mah Varta w/pins
49-0860-00	H	3/V150H	3.6V 140mah Varta stacked w/pins
27-0109-00	I	BR-2/3A	3V Lithium Battery for Aristocrat

CIRCUIT ANALYZER AND RECEPTACLE TESTER

- Neon indicators give positive indication of circuit status
- Compact unit simply plugs into any standard 3-wire / grounded receptacle (110-125V AC circuits)
- Tests for 6 circuit conditions: open ground, open neutral, open hot, hot/ground reverse, hot/neutral reverse and correct wiring
- Succession of yellow and red lights provide indication of circuit status or specify which wire is defective
- Easy to read 3 views – top, side and bottom
- Will not normally trip GFCI

Part Number	Description
49-0958-00	Circuit Analyzer and Receptacle Tester

SINGLE POLE SWITCH

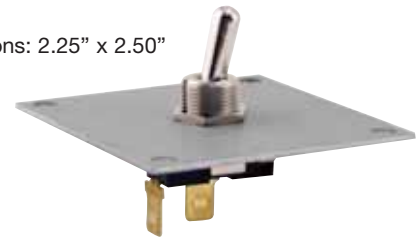
- .250 terminals
- 125 volt
- 15 Amp

CHERRY

Part Number	Description	Ref. No.
95-0852-00	Single Pole Door Switch	E13

BRACKET ASSEMBLY WITH ON/OFF TOGGLE SWITCH

- Pre-assembled for easy installation
- Plate is pre-drilled with four mounting holes
- Overall plate dimensions: 2.25” x 2.50”
- .250” terminals
- UL/CSA listed



Part Number	Description
49-5259-00	Bracket Assembly with ON/OFF Toggle Switch SPST, 20 amp, 125v, .250” terminals

TOGGLE SWITCHES

- .250 terminal
- 1/2" mounting hole
- UL/CSA listed

Part Number	Description	Amps	Volts
49-0005-00	Double Pole Single Throw	20	125
49-0031-00	Single Pole Single Throw	20	125

CHERRY

Cherry Offers You

Selection, Quality and Support

Cherry's ever-expanding lineup of switch products is one of the industry's best…

But depth of line is just one facet of Cherry's offering; we're equally obsessed with product quality. At Cherry, we feel our quality standards should be tougher than yours.

In addition, our highly trained engineering staff is always available to help you find the right switch solution for your application — whether it's a standard switch product or a custom snap-action switch.

See for yourself why Cherry is a cost-effective, one-stop resource for all your switch needs. Call or visit our website today.

Cherry Electrical Products
Phone: 800.510.1689
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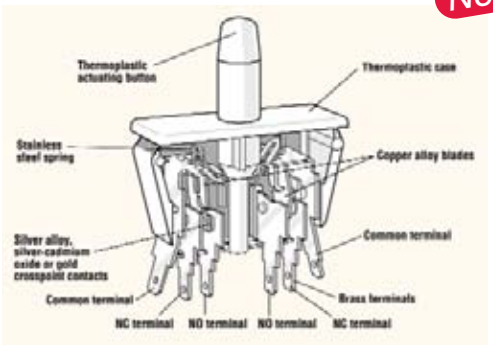
PANEL MOUNT PUSHBUTTON SWITCHES

New

SINGLE POLE PANEL MOUNT SWITCHES

- Choice of push and push-pull interlock switches
- Snap-in panel mounting
- Long life coil spring, snap-action mechanism
- Temperature rating -40˚ to +85˚
- Flammability rating UL94V-0
- Various terminal forms available

CHERRY



SINGLE POLE PANEL MOUNT SWITCH

- Single pole / Double throw
- Basic momentary action
- 10A, 125/250VAC; 1/3HP, 125/250VAC
- Terminals: 0.187" x 0.020" (4.75 x 0.51mm)
- UL recognized
- Cherry ref. no. E69-00A

Part Number	Description
53-7010-00	Single Pole Panel Mount Switch

SINGLE POLE PANEL MOUNT SWITCH

- Single pole / Double throw
- Push-pull (cheat) action
- 10A, 125/250VAC
- Terminals: 0.187" x 0.020" (4.75 x 0.51mm)
- UL recognized
- Cherry ref. no. E69-30A

Part Number	Description
53-7020-00	Single Pole Panel Mount Switch

SINGLE POLE PANEL MOUNT SWITCH

- Single pole / Double throw
- Push (momentary) action
- 10A, 125/250VAC
- Terminals: 0.187" x 0.032" (4.8 x 0.8mm)
- UL recognized / VDE approved
- Cherry ref. no. F69-66A

Part Number	Description
53-7031-20	Single Pole Panel Mount Switch

SINGLE POLE PANEL MOUNT SWITCH

- Single pole / Double throw
- Push (momentary) action
- 0.1A, 125VAC
- Terminals: 0.187" x 0.020" (4.75 x 0.51mm)
- UL recognized
- Cherry ref. no. E68-00A

Part Number	Description
53-7031-00	Single Pole Panel Mount Switch

SINGLE POLE PANEL MOUNT SWITCH

- Single pole / Double throw
- Push-pull (cheat) action
- 10A, 125/250VAC
- Terminals: 0.250" x 0.032" (6.3 x 0.8mm)
- UL recognized / VDE approved
- Cherry ref. no. F69-24AO

Part Number	Description
22-0745	Single Pole Panel Mount Switch

SINGLE POLE PANEL MOUNT SWITCH

- Single pole / Double throw
- Push-pull (cheat) action
- 10A, 125/250VAC
- Terminals: 0.187" x 0.032" (4.8 x 0.8mm)
- UL recognized / VDE approved
- Cherry ref. no. F69-65A

Part Number	Description
F69-65A	Single Pole Panel Mount Switch

SWITCH HOLDER

- Specially designed bracket to hold Cherry E7 series switches
- Protects switch from damage
- Switch easily snaps into holder
- Easy adjustable mounting
- Made from heavy duty 16-gauge steel
- Uses # 10 screws
- Switch not included

Part Number	Description
42-8061-00	Drop Door Switch Holder

BRACKET FOR PANEL MOUNT SWITCH

- For Cherry E68 and E69 series switches only
- Easily mount to cabinet
- Heavy-duty metal construction
- Mounting hardware not included

Part Number	Description
42-0578-00	Bracket for Panel Mount Switch

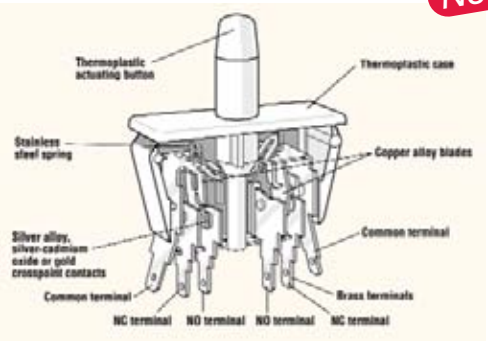
PANEL MOUNT PUSHBUTTON SWITCHES

New

DOUBLE POLE PANEL MOUNT SWITCHES

- Choice of push and push-pull interlock switches
- Snap-in panel mounting
- Long life coil spring, snap-action mechanism
- Temperature rating -40 O to +85 O
- Flammability rating UL94V-0
- Various terminal forms available

CHERRY



DOUBLE POLE PANEL MOUNT SWITCH

- Double pole / Double throw
- Push-pull (cheat) action
- 10A, 125/250VAC; 1/3HP, 125/250VAC
- Terminals: 0.187” x 0.020” (4.75 x 0.51mm)
- UL recognized
- Cherry ref. no. E79-30A

Part Number	Description
53-7030-00	Double Pole Panel Mount Switch

DOUBLE POLE PANEL MOUNT SWITCH

- Double pole / Double throw
- Basic momentary action
- 10A, 125/250VAC; 1/3HP, 125/250VAC
- Terminals: 0.187” x 0.020” (4.75 x 0.51mm)
- UL recognized
- Cherry ref. no. E79-00A

Part Number	Description
53-7011-00	Double Pole Panel Mount Switch

DOUBLE POLE PANEL MOUNT SWITCH

- Double pole / Double throw
- Basic momentary action
- 0.1A, 125/VAC
- Terminals: 0.187” x 0.020” (4.75 x 0.51mm)
- UL recognized
- Cherry ref. no. E78-00A
- Aristocrat ref. no. 6416-430795

Part Number	Description
53-7032-00	Double Pole Panel Mount Switch

DOUBLE POLE PANEL MOUNT SWITCH

- Double pole / Double throw
- Short button momentary action
- 0.1A, 125/VAC
- Terminals: 0.187” x 0.020” (4.75 x 0.51mm)
- UL recognized
- Cherry ref. no. E78-40A

Part Number	Description
53-7026-00	Double Pole Panel Mount Switch

DOUBLE POLE PANEL MOUNT SWITCH

- Double pole / Double throw
- Short button momentary action
- 10A, 125/250VAC; 1/3HP, 125/250VAC
- Terminals: 0.187” x 0.020” (4.75 x 0.51mm)
- UL recognized
- Cherry ref. no. E79-40A
- Bally ref. no. E108-0385

Part Number	Description
53-7028-00	Double Pole Panel Mount Switch

DOUBLE POLE PANEL MOUNT SWITCH

- Double pole / Double throw
- Push-pull (cheat) action
- 10A, 125/250VAC
- Terminals: 0.187” x 0.020” (4.75 x 0.51mm)
- UL recognized / VDE approved
- Cherry ref. no. F79-66A

Part Number	Description
22-0746-1	Double Pole Panel Mount Switch

DOUBLE POLE PANEL MOUNT SWITCH

- Double pole / Double throw
- Push-pull (cheat) action
- 10A, 125/250VAC
- Terminals: 0.250” x 0.032” (6.3 x 0.8mm)
- UL recognized / VDE approved
- Cherry ref. no. OF79-30AB

Part Number	Description
0F7930AB	Double Pole Panel Mount Switch

DROP DOOR SWITCH HOLDER

- Specially designed bracket to hold Cherry E7 series switches
- Protects switch from damage
- Switch easily snaps into holder
- Easy adjustable mounting
- Durable plastic design
- Uses #10 screws
- Switch not included

Part Number	Description
22-0098	Drop Door Switch Holder

COIN SWITCHES

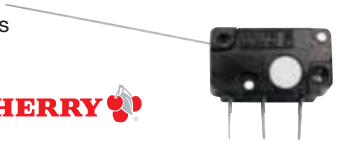
- Available with straight wire or custom bend to fit specific applications

Part Number	Description
42-1075-00	Coin Switch Assembly with straight wire
42-0394-00	Coin Switch Assembly with Bend for Suzo-Happ Coin Doors
891-1116-10	Coin Controls Coin Switch with Formed Actuator, Red
891-1116-16	Coin Controls Coin Switch wit Formed Actuator, Black
42-7087-00	Coin Switch Assembly Crouzet .250 Terminal

COIN SWITCH WITH WIRE

- .187 quick connect terminals
- High Cherry quality
- 125 Volt

CHERRY



Part Number	Description	Cherry No.	Amps
42-0105-00	White Dot	E51-39RA	6
42-0315-00	White Dot (Horizontal Leads)	E53-78R	0.1
42-0312-00	Blue Dot	E53-82R	0.1

COIN SWITCH WIRE AND RETAINER

CHERRY

Part Number	Description
42-0200-00	3-1/4" Hair Clip Style Wire
95-4186-00	Wire Retainer (Push Nut)

WATERPROOF SNAP SWITCH

- Waterproof and dust proof
- 5 amps
- 125/250 Volts
- .110 terminals

CHERRY

Part Number	Description
95-0863-00	Waterproof Snap Switch

ON/OFF BUTTON

- Push-on push-off (Latching)
- Red button cap
- 1/2" x 1/2" square
- 1-1/2" long
- 3 amp, 250 volt
- .110 terminal

Part Number	Description
95-0842-00	On/Off Button

LONG ARM SWITCH WITH ROLLER ACTIVATOR

- 10 amps
- 125/250 volts
- 250" terminals

CHERRY

Part Number	Description
50-8018-20	Long Arm Switch w/Actuator

SNAP SWITCHES

- High quality switch
- 75 gram (standard) actuating force
- .187" or .250" terminal available

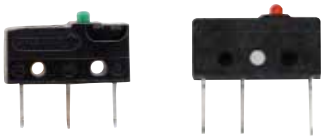
.187 Terminal

Part Number	Terminals	Amps
95-0733-90	.187"	15
95-4114-00	.187"	0.1
95-4111-90	.250"	15
95-4115-03	.250"	0.1

MINIATURE SNAP SWITCHES

- Used for VLT buttons
- .110 terminals
- 125 volts

CHERRY



Type: A Type: B

Part Number	Ref. No.	Amps	Actuator	Type	Contacts
95-4118-90	DB3EBGAF	0.1	Green	A	Gold
95-4139-00	E62-30A	10	Red	B	Silver

SWITCHES WITH ACTUATOR

- .250 terminal
- 1-1/2" actuator

CHERRY

Part Number	Ref. No.	Amps	Volts
42-0096-00	E-13-00H	15	125/250
42-0330-00	G-13-00H	0.1	125

MOMENTARY SWITCH

- Normally Open
- Single pole single throw
- 3 amp, 125 volt
- 1 amp, 250 volt
- 1/2" mounting hole

Part Number	Description
95-0845-00	Momentary Switch

MINI-SWITCH FOR IGT SLANT TOP GAMES

- Cash can switch for IGT slant top games
- Cherry E61-42MA replacement switch
- Double pole; double throw
- 5A, 125/250VAC
- IGT ref no. 51017490

CHERRY

Part Number	Description
70-1022-00	Mini-Switch for IGT Slant Top Games

MAGNETIC SWITCH

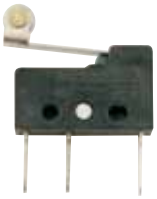
- Switch can be used as normally open or normally closed
- Includes 4 screws

Part Number	Description
30-0209-00	Magnetic Switch, Normally Open/Closed

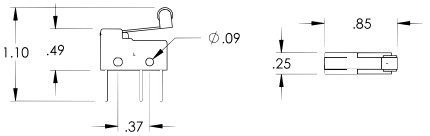
MINI-SNAP SWITCH WITH ROLLER ACTUATOR

- Roller actuator
- .110 terminals
- 0.1 amp 125 volt
- High Cherry quality
- Ref. No. E63-30K

CHERRY



Mounting Dimensions

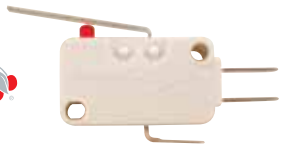


Part Number	Description
95-4138-00	Mini-Snap Switch With Roller Actuator

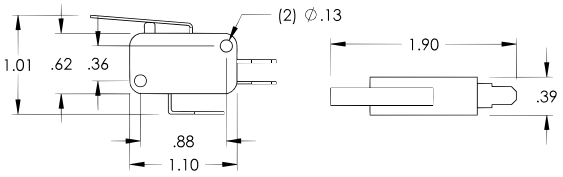
SNAP SWITCHES WITH STRAIGHT ACTUATORS

- 10 Amps
- 125 Volts
- .187 terminals

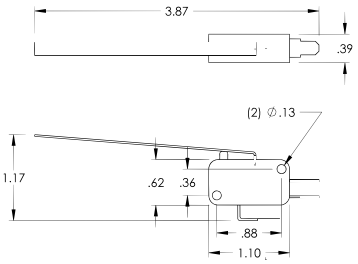
CHERRY



Mounting Dimensions 95-0735-00



Mounting Dimensions 95-4214-00



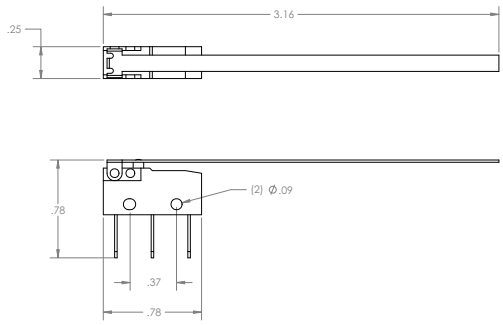
Part Number	Description
95-0735-00	1" Long Actuator
95-4214-00	3" Long Actuator

MINI-SNAP SWITCHES WITH ACTUATORS

- Fit All Recent Pinball Games
- 3" long actuator
- 0.1 amp, 125 volts
- .110 terminals

CHERRY

Mounting Dimensions 95-4183-00



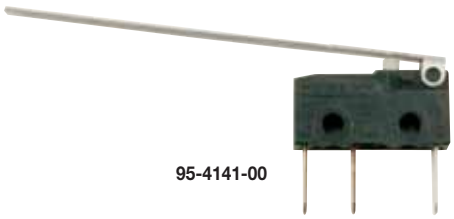
Part Number	Description
95-4183-00	Mini-Snap Switch w/Flat Actuator
95-4170-00	Mini-Snap Switch w/Wire Actuator

SWITCHES WITH ACTUATORS

CHERRY

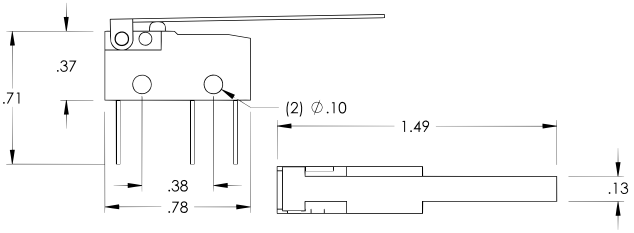
- Made with GOLD contact Cherry switches for long reliable service
- Two types available:
  "Miniature" D4 series
  "Subminiature" DA3 series
- Fit most applications on recent pinball games
- OEM applications – Custom designed switches also available, please inquire

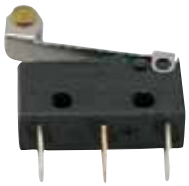
SUBMINIATURE SWITCHES



95-4141-00

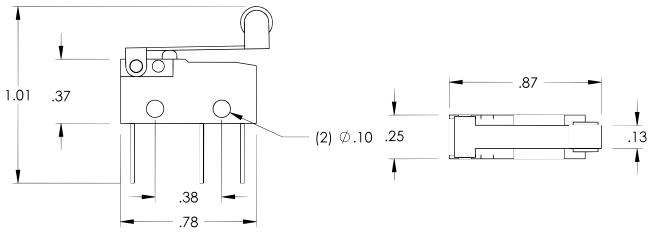
Mounting Dimensions 95-4141-00





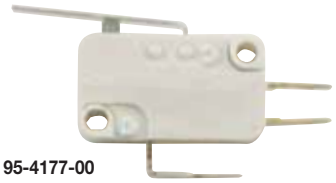
95-4142-10

Mounting Dimensions 95-4142-10



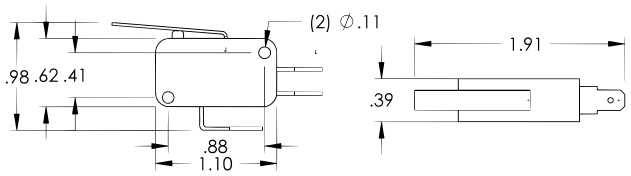
Part Number	Description
95-4141-00	Door Switch
95-4142-10	Validator Door Switch

MINIATURE SWITCHES



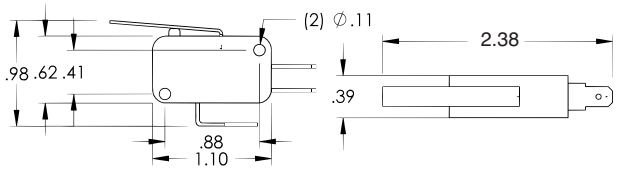
95-4177-00

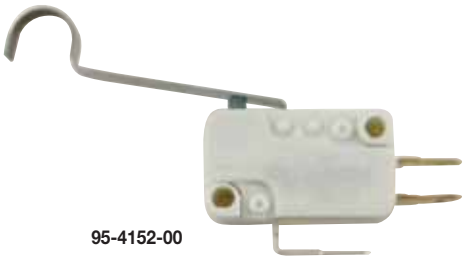
Mounting Dimensions 95-4177-00



95-4155-00

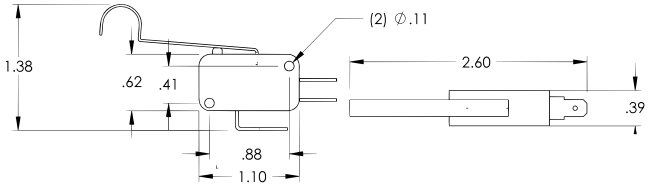
Mounting Dimensions 95-4155-00





95-4152-00

Mounting Dimensions 95-4152-00



Part Number	Description
95-4177-00	Hopper Escalator Switch
95-4155-00	Hopper Escalator Switch
95-4152-00	Validator Switch

NTE SEMICONDUCTORS

- Suzo-Happ is an authorized NTE distributor
- Call us for all your electronic needs

NTE ELECTRONICS, INC.

Part Number	Description
NTE123AP	T-NPN, Si, Audio Amp, Sw
NTE125	D-Si, 1000 PRV, 2.5A
NTE1777	IC-Linear, TV, Fixed Vltg Reg,
NTE1788	IC-Linear, Vert Defl., Output
NTE1862	IC-Linear, Vertical Defl
NTE2013	IC-7-Channel Darlington
NTE2018	IC-8-Channel Darlington
NTE2324	T-NPN, Si, High Voltage Switch
NTE2331	T-NPN, Si, Horiz, Defl
NTE2353	T-NPN, Si, Horiz Defl Output
NTE2354	T-NPN, Si, High Vltg, Horiz. Out
NTE2365	T-NPN,SI HORIZ OUT,TO-3P
NTE2379	MOSFET-N-Ch
NTE2382	MOSFET-N-Ch
NTE2385	MOSFET-N-Ch
NTE2388	MOSFET-N-Ch
NTE2389	MOSFET-N-Ch
NTE2395	MOSFET-N-Ch
NTE2396	MOSFET-N-Ch
NTE2501	T-NPN, Si, HV for Video Output
NTE2508	T-NPN, Si, Video Output for HDTV
NTE262	T-PNP, Si, Darlington Pwr Amp
NTE291	T-NPN, Si, Gen Purpose Amp
NTE3041	Optoisolator, NPN Transistor
NTE373	T-NPN, Si, Audio Amp & Driver

Part Number	Description
NTE373	T-NPN, Si, Audio Amp & Driver
NTE375	T-NPN, Si, Vertical Deflection,
NTE377	T-NPN, Si, Pwr Amp, Driver, Sw
NTE378	T-PNP, Si, Pwr Amp, Driver, Sw
NTE382	T-NPN, Si, Audio Driver
NTE383	T-PNP, Si, Audio Driver
NTE46	T-NPN, Si, Darlington
NTE5340	Rectifier-SI, Bridge, 200V, 40A
NTE5330	R-Si, Bridge, 600V, 6A
NTE54	T-NPN, Si, High Freq Dr
NTE552	R-Si, General Purpose
NTE5608	TRIAC-400V, 8A
NTE577	R-Si, Gen Purp, Fast Recovery
NTE580	R-Si, Gen Purp, Fast Recovery
NTE6240	R-Si. Dual, Center Tap
NTE7062	IC-Linear, CRT Display
NTE7085	IC-Linear, Vert Defl Output
NTE7086	IC-Linear, Sync Deflection Ckt
NTE7096	IC-Linear,Current Mode PWM Ctrl
NTE834	IC-Linear, Low Power, Low Offset
NTE85	T-NPN, Si, Gen Purp Amp
NTE928M	IC-Linear, Dual OP Amp
NTE956	IC-Vltg Reg, Pos Adj
NTE960	IC-Vltg Reg, Pos, 5V, 1A
NTE966	IC-Vltg Reg, Pos, 12V, 1A
NTE977	IC-Vltg Reg, Pos, 5V, 100ma

85° RADIAL ELECTROLYTIC CAPACITORS

- P.C. mount type
- Minimum order 25 each

Part Number	Volts	MF
62-0150-00	10	1000
62-0186-00	10	3300
62-0088-00	16	100
62-0205-00	16	2200
62-0096-00	25	33
62-0211-00	25	330
62-0123-00	25	2200
80-0193-00	35	100
80-0109-00	35	1000
80-0106-00	35	2200
62-0068-00	200	100
62-0291-00	200	470
62-0497-00	250	220
62-0240-00	400	100

105° RADIAL ELECTROLYTIC CAPACITORS

- P.C. mount type
- -40° to +105° C
- Minimum order 25 each

Part Number	Volts	MF
62-0183-105	10	1000
62-0079-105	10	1500
62-0027-105	10	2200
80-0129-105	16	10
80-0122-105	16	47
80-1159-105	16	220
80-1163-105	16	470
80-1160-105	16	1000
62-0185-105	16	1500
80-1161-105	16	2200
62-0416-105	16	3300
62-0287-00	16	6800
62-0094-105	25	10
62-0075-105	25	47
62-0097-105	25	100
62-0156-105	25	150
80-0117-105	25	220
80-0111-105	25	470
62-0107-105	25	820
80-0110-105	25	1000
62-0178-105	25	2200
62-0013-105	25	2200
62-0196-105	25	6800
62-0377-105	25	22000
62-0328-00	35	33
80-1166-105	35	47
80-0193-105	35	100
62-0130-105	35	220
62-0413-105	35	220
62-0125-105	35	330
62-0218-105	35	470
62-0181-105	35	680
80-0109-105	35	1000
80-0106-105	35	2200
80-1224-105	35	4700
62-0378-105	35	15000
62-0116-105	50	0.1
62-0117-105	50	0.47
80-0087-105	50	1
80-0132-105	50	2.2
62-0109-105	50	3.3
80-0130-105	50	4.7
80-0128-105	50	10
62-0018-105	50	22
62-0169-00	50	33
80-0123-105	50	47
80-1167-105	50	100
80-0148-105	50	220

Part Number	Volts	MF
62-0375-105	50	470
62-0468-105	50	1000
62-0114-105	50	2200
62-0390-105	50	4700
62-0189-105	63	1
62-0144-105	63	10
62-0078-105	63	22
62-0174-00	63	47
80-0120-105	63	100
62-0077-105	63	220
62-0391-105	63	330
62-0376-105	63	470
62-0290-105	100	1
80-1168-105	100	22
80-0102-105	100	47
62-0300-105	100	100
62-0152-105	100	220
62-0128-105	160	1
62-0482-105	160	22
80-0079-105	160	47
62-0129-105	160	100
62-0164-00	160	150
62-0366-105	160	220
62-0177-00	160	470
62-0161-00	200	22
62-0028-105	200	33
62-0186-105	200	47
62-0076-105	200	82
62-0104-00	200	100
62-0469-105	200	220
62-0190-105	200	470
80-0105-105	250	1
80-0104-105	250	4.7
62-0158-105	250	10
62-0159-105	250	22
62-0168-00	250	33
80-0096-105	250	47
62-0068-105	250	100
62-0066-105	250	150
62-0470-105	250	470
62-0197-105	400	2.2
62-0180-105	400	68
62-0500-105	400	220
62-0179-105	400	270
62-0401-105	400	330
80-1169-105	450	2.2
62-0105-105	450	220
62-0471-105	450	330

1 MEG BLANK CERAMIC EPROM

- New factory sealed blank EPROM for use in JCM WBA-11 and WBA-21 bill validators
- Quality ST Microelectronics brand
- 70 nanosecond programmable EPROM
- 1Mbit (128Kb x 8)
- M27C1001-70F1 UV erasable
- Stock up today so you are ready for the Next Gen currency updates
- Shipped in anti-static tubes
- Sold in lots of 12, min order 12

Part Number	Description
60-0258-00	1 Meg Blank Ceramic EPROM

512K BLANK CERAMIC EPROM

- New factory sealed blank EPROM for use in JCM DBV-145 and DBV-45 bill validators
- Quality ST Microelectronics brand
- 90 nanosecond programmable EPROM
- 512 Kbit (64Kb x 8)
- M27C512-90F1 UV erasable
- Stock up today so you are ready for the Next Gen currency updates
- Shipped in anti-static tubes
- Sold in lots of 13, min order 13

Part Number	Description
60-0257-00	512K Blank Ceramic EPROM

4 MEG BLANK CERAMIC EPROM

- New factory sealed blank EPROM for use in JCM WBA-13 and WBA-23 bill validators
- Quality ST Microelectronics brand
- 80 nanosecond programmable EPROM
- 4 Mbit (512Kb x 8)
- M27C4001-80XF1 UV erasable
- Shipped in anti-static tubes
- Sold in lots of 12, min order 12
- Also used in JCM DBV-200 heads: B1, A3 and B5
- Stock up today so you are ready for the Next Gen currency updates

Part Number	Description
60-0256-00	4 Meg Blank Ceramic EPROMM

INTEGRATED CIRCUITS

Part Number	Description
60-0471-00	24C04
60-0506-00	27C1000DC (1 Meg)
60-0120-00	27C512 (1/2 Meg)
60-0133-00	27C64
60-0507-00	27C2000DC (2 Meg)
60-0489-00	6264-10 8KX8
60-0103-00	74HC165
60-0108-00	74HC273
60-0031-00	74HC373
60-0508-00	AM-29F010-120PC
60-0123-00	ILQ-2
60-0049-00	LM340T-5
60-0116-00	MC68681
60-0059-00	ULN2068B

INTEGRATED CIRCUIT SOCKETS

- Low profile

Part Number	Description
61-0014-00	14 Pin
61-0016-00	16 Pin
61-0020-00	20 Pin
43-0927-00	40 Pin
61-0028-00	28 Pin
61-0029-00	32 Pin
43-0927-00	40 Pin

40 PIN GROUNDED DIP EXTRACTOR

- Instant and accurate extraction
- Simply place the tool on the socket and depress the plunger
- Conductive finish with ground strap connection point

Part Number	Description
92-0253-00	40 Pin Grounded Dip Extractor

UNIVERSAL PLCC EXTRACTION TOOL

- Extracts a range of PLCC sizes from 18 pins through 124 pins from any socket without damage to the chip
- Ideal for removal of Eproms for MEI & CashCode bill validators
- Spring loaded one-hand design requires no pulling
- Simply insert into socket, squeeze handles and chip is lifted from the socket
- ABS handles and stamped steel for reliability

Part Number	Description
92-0267-00	Universal PLCC Extraction Tool

ANTI-STATIC PRECISION TOOL KIT

- Contains all 9 anti-static alignment tools
- Wide range of tip styles and sizes for adjusting or aligning any conventional component
- Includes pocket storage case
- Kit includes:
  adjustment driver
  combination aligner
  duplex aligner
  small hex/driver
  hex/tip tool
  mini-potentiometer/trimmer
  double-ended hex
  3-in-1 hex core too
  square/hex tool

Part Number	Description
92-0562-00	Anti-Static Precision Tool Kit

WIHA CHIP LIFTER WITH ESD SAFE HANDLE

- Precision ESD safe chip lifter with ESD anti-static dissipative handle 1.0 X 3.5mm
- Wiha Exclusive CRM-72 Tool Steel
- Hardened and Tempered
- Anti Corrosion protected
- Notched to straddle pins and fasteners
- Extraction even when pins have corroded
- Length: 145mm

Part Number	Description
92-12247-00	Wiha Chip Lifter with ESD Safe Handle

I.C. EXTRACTION TOOL

- Used to safely lift up I.C.'s for replacement

Part Number	Description
92-0022-00	I.C. Extraction Tool

EPROM REMOVER

- Bostitch G2K staple remover easily removes EPROMs
- Attractive chrome finish
- Size: 8-1/2" H x 3/4" L x 1-3/4" W

Part Number	Description
92-1567-000	EPROM Remover

ESD FIELD SERVICE KIT

- Compact and easily transportable
- Folds to 8-1/2" for travel
- 26" X 24" conductive mat with pocket along bottom
- 6 ft. ESD strap
- 10 ft. cord to ground

Part Number	Description
92-0888-00	ESD Field Service Kit

ZERO CHARGE® SCREEN & KEYBOARD CLEANER

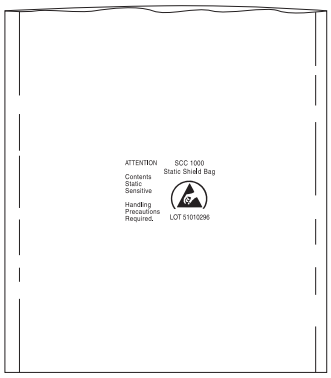
- Eliminates static charge from sensitive surfaces and provides long-term static protection
- For optical clarity and distortion free reading
- Removes hand oils, ink marks, dust, fingerprints, nicotine, syrup, carbon and other soils
- Safe on plastic, ceramics, glass, metal and elastomers
- Non-streaking
- Non-ozone depleting
- Sold in boxes of 50
- 50 pre-saturated packets per box; 10 boxes per case

TECHSPRAY™

Part Number	Description
29-0059-00	Zero Charge® Screen & Keyboard Cleaner

STATIC SHIELD BAGS

- Prevents incoming static charges from damaging ESD sensitive products
- Metal "Faraday" Cage layer protects products from electric energy inside and prevents static build-up
- Meets requirements of MIL-B-81705 Rev. C, Type III and EIA Standard 541
- 8" x 10"
- Minimum order 10



Part Number	Description
39-0810-AS	8" x 10" Static Shield Bag

PROFESSIONAL ADJUSTABLE WRIST STRAP KIT

- Static protection helps eliminate damage to electronic devices
- Elastic material-extra wide and soft for comfort and has silver impregnated nylon knitted on inside for super conductivity
- Adjustable-Can be fitted to any size. Once adjusted and locked, the material will not slip
- Adjustable design eliminates exposed conductive "tail"
- Stainless steel stud
- No sloughing-safe for micro electronics
- Non-allergenic stainless steel
- Kit includes: 10 ft. coil cord, 4MM snap stud and alligator clip

Part Number	Description
80-0308-00	Professional Adjustable Wrist Strap

ANTI-STATIC WRIST STRAP

- Prevent damaging static discharge while working on static-sensitive equipment
- Works continuously, discharging electricity harmlessly as its generated
- Includes a 5' grounding cord attachment
- A "must-have" for any technician

Part Number	Description
92-1338-00	Anti-Static Wrist Strap

ANTI-STATIC FOAM

- Keep your electronic repair parts safe and handy
- Protects delicate IC leads during shipping and storage
- Protects against ESD "Static-Zap" damage
- Great for storing and transporting semiconductors
- Simply insert component into foam to keep leads from damage
- Black anti-static foam sheets 36" x 30" x 5/16" Thick – use to line drawers

Part Number	Description
39-0059-10	Black Anti-Static Foam Sheets 36" x 30" x 5/16" Thick

FLUORESCENT LAMPS

- Highlight your products with these top quality fluorescent lamps
- Name brands
- Sold in case quantities only

IMPROVED BULB PACKAGING
ELIMINATES BULB BREAKEAGE
CAUSED DURING SHIPMENT
WE GUARANTEE IT

Part Number	Fluorescent	Watts	Length	Case Qty.
91-3000-00	F4T5/CW	4	6"	25
91-3001-00	F6T5/CW	6	9"	25
91-3002-00	F8T5/CW (Philips)	8	12"	25
91-3004-00	F13T5/CW	13	21"	25
91-3005-01	F13T8/CW	13	12"	24
91-3006-01	F14T8/CW (Sylvania)	14	15"	24
91-1113-00	F14T12/CW	14	15"	30
91-3008-04	F15T8/CW (Philips-Not Alto)	15	18"	96
91-3008-01	F15T8/CW (Sylvania)	15	18"	24
91-3008-02	F15T8/CW (GE)	15	18"	24
91-0760-00	F15T8/865	15	18"	24
91-3018-00	F15T8/BLB	15	18"	6
91-3043-00	F15T12/D	15	18"	30
91-0911-00	F15T12/CW	15	18"	6
91-0183-00	F017/865XP/ECO	17	24"	30
91-0716-00	F17T8/CW	17	24"	25
91-3009-00	F18T8/CW/K/24 F24T8/CW/4	18	24"	25
91-3010-00	F18T8/CW/K/26 F26T8/CW	18	26"	24
91-3011-00	F18T8/CW/K/28 F28T8/CW/4	18	28"	24
91-3012-10	F18T8/CW/K/30 F30T8/CW/4	18	30"	24
91-0652-00	F20T12/BLB	20	24"	6
91-0088-00	F025/741 (T8)	25	36"	30
91-3014-00	F20T12/D	20	24"	30
91-0652-00	F20T12/BLB	20	24"	6

LAMP SELECTION GUIDE		
Bulb Diameter	T5	5/8"
	T8	1"
	T10	1-1/4"
	T12	1-1/2"
Base	MDB	Medium Bi Pin
	MNB	Miniature Bi Pin
	SP Pin	Single Pin
	RDC	Recessed Double Contact
Length	Measure full length from pin tips	
Type	BLB	Black Light Blue
	HO	High Output. For use in outdoor signs. Starter required
	CW	Cool White
	D	Daylight
	IS	Instant Start. Slimline type with 1 pin. No starter required
	PH	Preheat. Requires starter.
	PH-RS	Preheat Rapid Start. May be used with or without starter
	RS	Rapid Start. No starter required
	UBENT	U shaped lamp
	WW	Warm White

Part Number	Fluorescent	Watts	Length	Case Qty.
91-3013-00	F20T12/CW (Alto)	20	24"	30
91-0669-00	F22T8/D/24	18	22"	24
91-0655-00	F25T8/SPX30	25	36"	24
91-3016-00	F25T12/D/28	25	28"	24
91-3017-10	F25712/CW/28	25	28"	30
91-3039-00	F25T12/CW/30	25	30"	30
91-3020-00	F25T12/CW/33	25	33"	30
91-3025-00	F25T12/D/33	25	33"	24
91-3021-10	F30T8/CW (Sylvania)	30	36"	24
91-0115-00	F30T8/D	30	36"	24
91-3022-00	F30T12/CW/RS	30	36"	30
91-3023-00	F30T12/D/RS	30	36"	30
91-3024-00	F32T8/SP41	32	48"	36
91-0200-00	F32T8/SP65	32	48"	36
91-3026-00	F35/CW/U3	35	24"	12
91-1185-00	F36T12/CW/SP	30	36"	30
91-3051-00	F40T8/SP41	40	60"	24
91-3050-00	F40T10CW	40	48"	30
91-0958-00	F40BLB	40	48"	6
91-3027-00	F40/CWX* (T-12)	40	48"	30
91-3028-00	F40DX** (T-12)	40	48"	30
91-1188-00	F42T12/CW	36	42"	24
91-3052-00	F48T12/D-SP	40	48"	30
91-1243-00	F60T12/CW	50	60"	30
91-3029-00	F60T12/D-SP	50	60"	15
91-0668-00	F64T12/CW	50	64"	30
91-3030-00	F64T12/D-SP	52	64"	30
91-3031-00	F72T12D-SP (Alto)	55	72"	15
91-3032-00	F72T12/CW-SP	56	72"	15
91-3033-00	F96T12/CW-SP***	60	96"	15

*Replacement for F40CWI
**Replacement for F40DI
***F96 lamps shipped by truck only

ECONOMY FLUORESCENT LAMPS

- Top Quality
- Sold by the case only

IMPROVED BULB PACKAGING
ELIMINATES BULB BREAKEAGE
CAUSED DURING SHIPMENT
WE GUARANTEE IT

Part Number	Fluorescent	Watts	Length	Case Qty.
91-3000-10	F4T5CW	4	6"	100
91-0007-00	F4T5D	4	6"	100
91-3001-10	F6T5CW	6	9"	50
91-0008-00	F6T5D	6	9"	50
91-3002-10	F8T5CW	8	12"	50
91-0009-00	F8T5D	8	12"	50
91-0011-10	F10T8CW	10	14"	25
91-0023-00	F14T8CW	14	15"	25
91-0282-00	F14T8D	14	15"	25
91-3042-10	F15T8D	15	18"	25
91-3008-03	F15T8CW	15	18"	25
91-0020-00	F18T8CW	18	24"	24

HIGH OUTPUT FLUORESCENT LAMPS

- Extra bright illumination increases the attractiveness of your machines, creating more demand for your products
- All high output lamps are recessed double pin contacts
- Top quality name brands
- Sold in case quantities only

Part Number	Fluorescent	Watts	Length	Case Qty.
91-1175-00	F24T12/CW/HO	35	24"	30
91-0909-00	F48T12/CW/HO	60	48"	24
91-0672-00	F48T12/D/HO(Alto)	60	48"	15
91-3034-10	F64T12/CW/HO	80	64"	30
91-3035-10	F64T12/D/HO	80	64"	30
91-3036-00	F72T12/D/HO	85	72"	15
91-0022-00	F72T12/CW/HO	85	72"	15

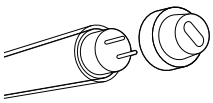
F12T4/CW FLUORESCENT LAMP FOR ATRONIC

- F12T4/CW used on Atronic "Deal or No Deal"

Part Number	Description
223-1013-0	F12T4/CW Fluorescent Lamp for Atronic

PROTECT-A-LAMP™ FLURORESCENT SAFETY SLEEVE

- Unbreakable clear plastic sleeve protects any area in case of shattering glass
- Reusable
- Includes 2 end caps; accommodates both single and double pin lamps
- Ideal for "reach-in" type machines



Part Number	Description
91-1172-00	Fluorescent Safety Sleeve for T12 Lamps
91-1183-00	Fluorescent Safety Sleeve for T8 Lamps
91-1179-00	End Caps Only, for T12 Safety Sleeve
91-1184-00	End Caps Only, for T8 Safety Lamp

FLUORESCENT FOR BALLY MONTE CARLO

- 24W compact fluorescent
- Used behind belly glass on Bally Monte Carlo

Part Number	Description
91-0771-00	Fluorescent for Bally Monte Carlo

MOD-U-LINE/CIRCLINE FLUORESCENT LAMPS

91-3026-00

91-0046-00

Part Number	Fluorescent	Watts	Length	Case Qty
91-3026-00	F35CW/U/3	35	24"	12
91-0159-00	FC6T9/CW/RS	22	6.5"	12
91-0046-00	FC8T9/CW	22	8.25" dia.	12
91-0787-00	FC8T9/D	22	8.25" dia.	12
91-0099-00	FC12T9/CW/RS	32	12" dia.	12
91-0088-00	FO25/741(T8)	25	36"	30
91-0217-00	FO32/865/XP	32	48"	30

COMPACT FLUORESCENT LAMPS

- Energy and space saving compacts for the new model machines
- Radiates equal amounts of light as traditional fluorescent, in a fraction of the space
- American made

TYPE A

TYPE B

Part Number	Fluorescent	Watts	Type
91-0999-00	F5 Compact (used on WMS Bluebird)	5	A
91-3037-00	F5 Compact, 2700K	5	A
91-1043-00	F5 Compact, 4100K	5	A
91-3038-00	F7 Compact, 2700K	7	A
91-3041-00	F13 Compact, 2700K	13	A
91-1177-00	F9 Compact, 2700K	9	A
91-0188-00	F9 Compact, 3500K	9	A
91-0966-00	F9 Compact, 4100K	9	A
91-0166-00	F9 Compact, 2700K	9	B
91-0979-00	F40, 4100K	40	B

FLUORESCENT LAMP FOR FOR BALLY M9000 TOPPER BOX

- 36W compact fluorescent lamp for Bally M9000 Topper Box
- Sold per case of 25

Part Number	Description
91-0986-00	5W Compact Fluorescent Lamp

FLUORESCENT FOR TOPPER BOXES

- For all Suzo-Happ topper boxes
- Warm White or Cool White Available
- 12 volt; 11 watts
- 2G7 base

Part Number	Color	Description
9902-11	Warm White	Fluorescent For Topper Box
9902-11CW	Cool White	Fluorescent For Topper Box

13W COMPACT FLUORESCENT

New

- Used in Konami games
- 13W energy saver mini twister bulb
- Provides soft white light
- 10,000 hour life
- 900 lumen light output
- Minimum buy is 1 box
- Sold in boxes of 6

Part Number	Description
91-0714-00	13W Compact Fluorescent

COMPACT FLUORESCENT LAMPS

New

- Electronic self-ballasted compact fluorescents
- 8,000 hour life
- 4100K color temperature
- Medium screw base
- 24 per box

Part Number	Watts	Replaces
91-2486-00	13W	60W Incandescent
91-2557-00	19W	75W Incandescent
91-2629-00	23W	100W Incandescent

PLUG-IN COMPACT FLUORESCENT LAMP

- Replaces 150-Watts incandescent lamp
- Flat profile makes a perfect choice for slim, attractive luminaries
- Works great on either wall or ceiling applications
- 8" x 8" x 1"
- 4 pin plug-in lamp socket

Part Number	Watts	Description
91-0918-00	5W	F38/2D/827/4P

FLUORESCENT LIGHT FIXTURE

- 3 ft electrical cord
- Overall length: 48"
- For workshops, storage rooms, under cabinets, etc.
- Easy to install – hardware included
- Plastic cover for better light diffusion
- Includes everything - F36T8 lamp, electronic ballast, starter and sockets

Part Number	Description
91-0027-00	48" Fluorescent Light Fixture

FLUORESCENT LIGHT FIXTURE

- 5 ft hideaway cordset
- On/Off switch
- UV stabilized diffuser
- Mounting screws included
- 60 watt light output, uses 15 watts
- Utility lighting mounts almost anywhere
- Compact size: 18" W x 3.5" D x 1.5" H
- F15T8 fluorescent bulb included
- Proudly Made in USA
- UL & CSA

Part Number	Description
91-0211-00	Fluorescent Light Fixture

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suzohapp.com and click on
How to Shop.

COLD CATHODE RETROFIT LIGHTING KITS

- Energy efficient converting more energy to light output instead of heat, uses 75% less power
- Ideal for gaming panels and lighting signage
- Retrofit kits fit into existing fluorescent lamp sockets in gaming machines
- Provides bright white lighting at 6,500° K, significantly less heat than fluorescent lamps
- Long life lasting over 20,000 hours
- Avoid messy wire splicing with the simple to install 12 VDC Power Supply plug-in
- 12 VDC Power Supply (sold separately) includes 2.5 amp line cord with HDD connector
- Up to three double element (or six single element) lamps can be daisy-chained using extension harnesses with 12VDC power supply
- Lighting modules include a 2-year warranty against manufacturer defects

Double or Single Element Module RetroFit Kits

Retrofit Kits; include one CCFL module, inverter, Velcro hook and loop strips and wire harness (power supply sold separately)

Part Number	Description
95-2630-00UL	F15T8 Retrofit Kit with Double Element Module
95-2630-10UL	F15T8 Retrofit Kit with Single Element Module
95-2630-20UL	F14T8 Retrofit Kit with Double Element Module

Complete Retrofit Kits include lighting element(s), dual inverter(s), power harness(es), and 12VDC power supply

Part Number	Description
95-2693-10UL	F15T8 Complete Retrofit Kit with Two Double Element Modules

80-0414-20

Accessories/Replacement Parts

Part Number	Description
80-0414-20	12VDC Desktop Power Supply
96-0640-00	Power Extension Harness

COLD CATHODE LIGHT REFLECTOR ASSEMBLY

- Energy efficient converting more energy to light output instead of heat, uses 75% less power
- Ideal for gaming panels and lighting signage
- Includes bracket, two single CCFL modules, inverter and wire harness (optional power supply sold separately)
- Used behind belly glass or top glass depending on machine
- Provides bright white lighting at 6,500° K, significantly less heat than fluorescent lamps
- Long life lasting over 20,000 hours
- Avoid messy wire splicing with the simple to install 12 VDC Power Supply plug-in
- 12 VDC Power Supply (sold separately) includes 2.5 amp line cord with HDD connector
- Lighting modules include a 2-year warranty against manufacturer defects
- Mounts with screws in key hole slots (screws not included)

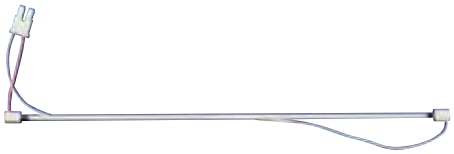
95-2631-00

80-0414-20

Part Number	Description
95-2631-00	Light Reflector Assembly, 16" W x 5.7" H
80-0414-20	12VDC Power Supply

COLD CATHODE FOR ARISTOCRAT

New



- For Aristocrat Sentinel III player tracking system LCD display
- With wiring harness
- Sold and Packed per 10

Part Number	Description
91-6329-00	Cold Cathode For Aristocrat

COLD CATHODE LAMPS FOR ARISTOCRAT LCD

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness
- Sold and Packed per 10

Part Number	Description
91-6787-00	Cold Cathode for 15” Aristocrat LCD
91-6904-00	Cold Cathode for 17” Aristocrat LCD
91-7022-00	Cold Cathode for 19” Aristocrat LCD

COLD CATHODE LAMPS FOR ATRONIC LCD MONITORS

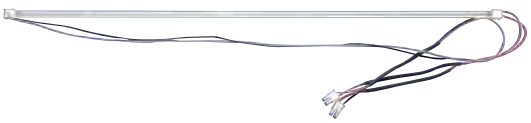
New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness
- Sold and Packed per 10

Part Number	Description
91-7141-00	Cold Cathode for 15” Atronic LCD
91-7261-00	Cold Cathode for 17” Atronic LCD
91-7382-00	Cold Cathode for 19” Atronic LCD

COLD CATHODE FOR ATRONIC SLOT MACHINES

New



- For Atronic video slots that use a 17” LCD monitor
- Dual 70,000 hour cold cathode lamp assembly
- Includes wire harness, silicone end caps, and connectors
- Sold and Packed per 10

Part Number	Description
91-1432-00	Cold Cathode lamp for Atronic 17” LCD monitors

COLD CATHODE LAMPS FOR BALLY LCD MONITORS

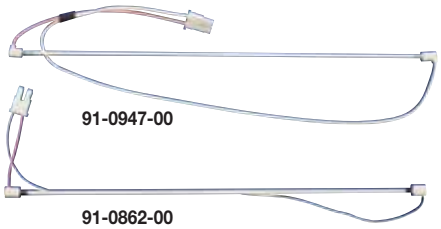
New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness
- Sold and Packed per 10

Part Number	Description
91-7627-00	Cold Cathode for 15” Bally LCD
91-1712-00	Cold Cathode for 19” Bally LCD
91-7751-00	Cold Cathode for 20” Bally LCD

COLD CATHODE FOR BALLY I-VIEW PLAYER TRACKING SYSTEM

New



- For use on 1st generation IDW or 2nd generation Hitachi 6.2’ LCD panel
- Rated at 70,000 hours
- Sold and Packed per 10

Part Number	Description
91-0947-00	For IDW LCD Panel
91-0862-00	For Hitachi LCD Panel

COLD CATHODE FOR BALLY M9000

New

- Single raw cold cathode for Bally M9000 game with 19/20” Tatung LCD # L19LA25M21LC02 or #L195A25M21LB01
- No wiring or connectors included
- Rated at 70,000 hours
- Sold and Packed per 10

Part Number	Description
91-1712-00	Cold Cathode for Bally M9000

COLD CATHODE LAMP FOR IGT NEXGEN PLAYER TRACKING

New

- Raw cold cathode lamp without any wire harness attached
- For Hitachi 6.2” LCD panel SX16H005-AZA
- Sold and Packed per 10

Part Number	Description
91-8516-00	Cold Cathode Lamp for IGT NexGen Player Tracking

COLD CATHODE LAMPS FOR IGT LCD MONITORS

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness
- Sold and Packed per 10

Part Number	Description
91-7876-00	Cold Cathode for 10” IGT LCD
91-8002-00	Cold Cathode for 15” IGT LCD
91-8129-00	Cold Cathode for 17” IGT LCD
91-8257-00	Cold Cathode for 19” IGT LCD

COLD CATHODE FOR IGT NEXGEN PLAYER TRACKING SYSTEM

- For use with Hitachi 6.2” LCD panel
- Rated at 70,000 hours
- With or without wiring harness
- Sold and Packed per 10

Part Number	Description
91-1056-00	Cold Cathode with Wiring Harness

COLD CATHODE FOR KONAMI PLAYER TRACKING

New

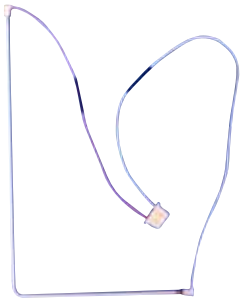
- For Komami Casino Management System Player Tracking
- Wiring harness included
- Sold and Packed per 10

Part Number	Description
91-8647-00	Cold Cathode for Konami Player Tracking

COLD CATHODE FOR KONAMI

New

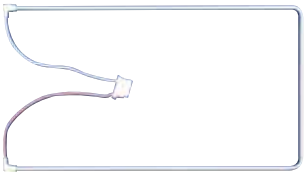
- “L” shaped lamp for Konami 7” Bonus LCD
- Wiring harness included
- Sold and Packed per 5



Part Number	Description
91-4561-00	Cold Cathode for Konami

COLD CATHODE FOR KONAMI

New



- “U” shaped lamp for Konami 7” Bonus LCD
- Wiring harness included
- Sold and Packed per 5

Part Number	Description
91-1006-15	Cold Cathode for Konami

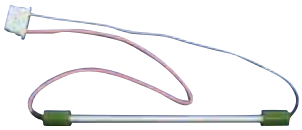
COLD CATHODE FOR KONAMI BELLY GLASS AND KONAMI GAMES

New

- Single raw cold cathode lamp for Konami belly glass that is back-lit with cold cathode lamps
- Single raw cold cathode for Konami games with 17” and 19” LCD monitors
- No wiring or connectors included
- Rated at 70,000 hours
- Sold and Packed per 10

Part Number	Description
91-2146-00	Cold Cathode for Konami Belly Glass
91-8912-00	17” Cold Cathode for Konami Games
91-1954-00	19” Cold Cathode for Knoami Games

COLD CATHODE FOR KONAMI DENOMINATION PANEL



- Single cold cathode assembly for Konami upright video denomination back-lit panel
- Includes wiring and connector
- Rated at 70,000 hours
- Sold and Packed per 10

Part Number	Description
91-1831-00	Cold Cathode for Konami Denomination Panel

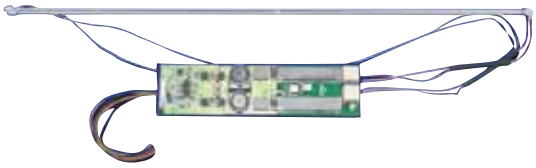
COLD CATHODES FOR KONAMI MACHINES

New

- Dual cold cathode lamp assembly for Konami slot machines with a 17” LCD monitor
- Wiring harness and connectors included
- Lamps rated at 70,000 hours
- Sold and Packed per 10

Part Number	Description
91-1654-00	Cold Cathodes for Konami Machines

COLD CATHODE FOR KONAMI SLOTS

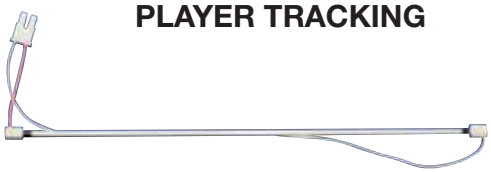


New

- For Konami slot machines with cold cathode edge-lit belly glass
- Dual 70,000 hour cold cathode lamp assembly
- Includes one aluminum encased dual output 12V Piezo matching inverter
- Lamp assembly includes wire harness, silicone end caps and connectors attached
- Sold and Packed per 10

Part Number	Description
91-1379-00	Cold Cathode for Konami Slots

COLD CATHODE FOR MULTIMEDIA GAMES PLAYER TRACKING



New

- For 6.2” Hitachi LCD panel # TX16D11VM2CAA
- Wiring harness included
- Sold and Packed per 10

Part Number	Description
91-10012-00	Cold Cathode for MultiMedia Games Player Tracking

COLD CATHODE LAMPS FOR MULTIMEDIA VLT AND SLOT MACHINES

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness
- Sold and Packed per 10

Part Number	Description
91-9454-00	Cold Cathode for 15” MultiMedia LCD
91-9592-00	Cold Cathode for 17” MultiMedia LCD
91-9731-00	Cold Cathode for 19” MultiMedia LCD
91-9871-00	Cold Cathode for 23” MultiMedia LCD

COLD CATHODES FOR SAMSUNG AND AU OPTRONICS LCD PANELS

New

- For all 15”, 17”, and 19” Samsung and AU Optronics LCD panels
- No connectors or harnessing included
- Sold and Packed per 10

Part Number	Description
91-1597-00	Cold Cathode for 15” LCD Monitor
91-1486-00	Cold Cathode for 17” LCD Monitor
91-1541-00	Cold Cathode for 19” LCD Monitor

COLD CATHODE LAMPS FOR SPIELO VLT AND SLOT MACHINES

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness
- Sold and Packed per 10

Part Number	Description
91-10297-00	Cold Cathode for 15” Spielo LCD
91-10441-00	Cold Cathode for 17” Spielo LCD
91-10586-00	Cold Cathode for 19” Spielo LCD

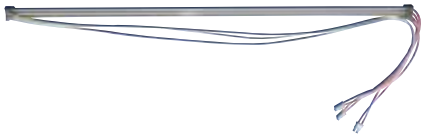
COLD CATHODE LAMPS FOR WMS LCD MONITORS

New

- Raw cold cathode lamps without any wire harness attached
- To install just un-solder the old cold cathode lamps from the existing wire harness and re-solder the new cold cathode lamps to the existing wire harness
- Sold and Packed per 10

Part Number	Description
91-11027-00	Cold Cathode for 19” WMS LCD
91-9317-00	Cold Cathode for 22” WMS LCD

COLD CATHODE FOR WMS BLUEBIRD

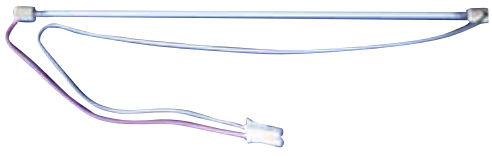


New

- Triple cold cathode replacement assembly for WMS Bluebird slots with 17” LCD monitor
- Includes three 70,000 hour cold cathode lamps, attached wire harness, connectors and silicone end caps
- Sold and Packed per 10

Part Number	Description
91-2820-00	Cold Cathode Assembly for WMS Bluebird

COLD CATHODE FOR WMS BLUEBIRD BONUS SCREEN



New

- Single lamp assembly for 6.4” LCD (LG #LB064V02) in WMS BlueBird bonus screen
- Includes wiring and connectors
- Rated at 70,000 hours
- Sold and Packed per 10

Part Number	Description
91-1771-00	Cold Cathode for WMS BlueBird Bonus Screen

COLD CATHODE FOR WMS SMART LCD AND 19" FUJITSU LCD

New

- Single raw cold cathode lamp for WMS slot machine with 19" Smart Technology LCD #SV3190W
- Single raw cold cathode lamp for WMS slot machine with 19" Fujitsu LCD
- No wiring or connectors included
- Rated at 70,000 hours
- Sold and Packed per 10

Part Number	Description
91-2017-00	Cold Cathode for WMS Smart LCD

Part Number	Fujlysu No.	Description
91-2081-00	FLC48SXC8B-11AA	Cold Cathode for WMS 19" Fujitsu LCD
91-2212-00	NA19026-C261	Cold Cathode for LCD WMS 19" Fujitsu

COLD CATHODE ASSEMBLY FOR WMS BLUEBIRD

- For use in WMS Bluebird slot machines that use a 18" LCD monitor
- Convenient "plug-n-play" assembly
- 3-cold cathode assembly rated at 70,000 hours

- Wiring harness and connectors included
- Sold and Packed per 10

Part Number	Description
91-1006-10	Cold Cathode Assembly for WMS Bluebird

COLD CATHODE LAMP TESTER

New

- Includes 36" AC plug-in cord, 2-pin JST connection adaptor and in-line rotary on/off switch

Part Number	Description
91-6671-00	Cold Cathode Lamp Tester

COLD CATHODE AND INVERTER TESTER

New

- Tests the inverter and cold cathode lamp
- Lets you know which one is not working or if both are not working
- Included are AC adaptor, 2-pin JST connection adaptor and on/off toggle switch

Part Number	Description
91-10732-00	Cold Cathode and Inverter Tester

BALLAST FOR SUZO-HAPP TOPPERS

- Also for Atronic E-Motion toppers
- 12 or 24 VDC
- UL Approved

Part Number	Description
22-0139	24V Ballast for Atronic e-motion Toppers
22-0138	12V Ballast for Atronic e-motion Toppers

ELECTRONIC BALLAST

New

- Used in Atronic E-motions
- Teknoware ballast
- Electronic ballast for small wattage lamps
- Designed to meet the UL – requirements for electronic ballasts

- Nominal input voltage: 12 VDC (10-16 V)
- Fluorescent lamp: 4…9 W TL/TC-E
- Special features:

  Constant light output between nominal and maximum input voltage

  Servisafe™ - function which shuts the output voltage off in case of lamp failure. The operation returns automatically when the lamp is replaced.
- 39 W x 29 H x 85 L (mm)

Part Number	Description & Ref. No.
91-3487-00	Electronic Ballast TM80041

ELECTRONIC BALLAST

- For IGT machines
- With polymer fuse
- 0.62A, 25VDC

Part Number	IGT No.	Description
70-0635-00-R	195 076 90	15W Electronic Ballast, RoHS Compliant
70-1151-00-R	195 078 00	40W Electronic Ballast, RoHS Compliant

UNIVERSAL ELECTRONIC BALLAST FOR WMS BLUEBIRD

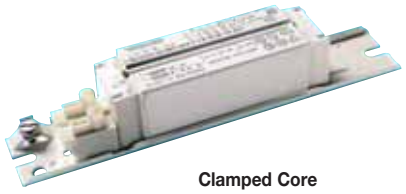
New

- 100-230V, 22 Watts

Part Number	Description
20-011580-00-00	Universal Electronic Ballast for WMS Bluebird

BALLASTS

- Top quality ballasts made durable for extra long life
- Low noise
- American made



Clamped Core

Encased & Potted

Part Number	Same as Advance No.	Same as GE No.	Watts	Lamp Type	Used On	Volts	Leads Color/ Length	Lamps	Ballast Type
91-0039-00	LO-13-22	2X463	13, 14, 15, 20	T8, T12 Preheat Straight	F13, F14, F15, F20	120	1 Black 6" 1 White 6" 1 Yellow 11" 1 Black 11" 1 Red 11" 1 White 11"	1	Encased & Potted
91-0040-00	_	_	25	T12 Preheat Straight	F25	120	1 Black 14" 1 White 14" 1 White 22" 1 Red 22" 1 Yellow 22" 1 Blue 22"	1	Encased & Potted
91-0124-00	LPL—5-9	6V836	4, 6, 8	T5 Straight Preheat	F4, F6, F8	120	2 Black 9"	1	Encased & Potted
91-0128-10	R-2S40-1-TP	6X922	34, 40	T10 & T12 Straight Rapid Start T12 U-Shaped Rapid Start	F40	120	1 Black 20" 1 White 20" 2 Blue 25" 2 Red 25" 2 Red 25" 2 Yellow 35"	2	Encased & Potted
91-0905-10	LS-113-TP	_	13	T5 Preheat Straight	F13	120	1 White 15" 1 Blue 15" 1 Black/White 15"	1	Encased & Potted
91-1226-00	LC-4-9-C	6V834	4, 6, 8	T5 Straight Preheat	F4, F6, F8	120	2 Black 10"	1	Clamped Core
91-1228-00	LC-14-20-C	2X463	14,15, 18, 19, 20	T8,T12 Preheat Straight	F14,F15, F18, F19, F20	120	1 Black 17" 1 Black 14"	1	Clamped Core
91-1229-01	LC-25	6V833	25	T12 Preheat Straight	F25	120	1 Black 7" 1 Black 22"	1	Clamped Core
91-1230-00	_	_	30, 40	T12 Preheat Straight	F30, F40,	120	1 Black 26" 1 Blue 26" 1 White 26"	1	Clamped Core

THIN-LITE BALLAST FOR IGT

New

- Used with IGT I-Game for the top box round circuline bulb

Part Number	Description
91-0991-00	Thin-Lite Ballast for IGT

FLUORESCENT LAMP BALLAST FOR WMS BLUEBIRD

- 15W, 85-265 VAC ballast for WMS Bluebird machines

Part Number	Description
20-10481.1	Fluorescent Lamp Ballast for WMS Bluebird

6W BALLAST FOR ARISTOCRAT

New

- 6w ballast for Aristocrat machines
- Setec EBS3-6-T5 (replaces EBS2-6-T5)
- Ref. No. 008056 replaces 006999

Part Number	Description
70-1757-00	6W Ballast for Aristocrat

FLUORESCENT SOCKETS FOR STANDARD LAMPS

91-1191-00

91-1189-00

Part Number	Lamp Type	Watts
91-1191-00	T5	4, 6, 8, 11, 13
91-1189-00	T8 & T12	14, 15, 16, 18, 20, 22, 25, 30, 40

STARTERS

- Deluxe starters are UL/CSA listed
- Deluxe starters include ceramic condenser which greatly increases the life of the starter
- All starters are pre-tested to insure top quality
- 25 per box
- Minimum order of 5

Part Number	Watts	Description
91-2000-00	14, 15, 20	FS-2 Deluxe w/condenser
91-2001-00	30, 40	FS-4 Deluxe w/condenser
91-2002-00	4, 6, 8	FS-5 Deluxe w/condenser
91-2003-00	18, 22, 25	FS-25 Deluxe w/condenser
91-0949-10	4-65	S-2 Philips Starter w/o condenser
91-0949-00	4-22	S-10 Philips Starter w/o condenser

FS-U UNIVERSAL STARTER

- Eliminates the need to carry 3 different starters
- Replaces the FS2, FS4, and FS5 starters
- 4-30 Watts; 120V
- UL listed
- With condenser
- 25 per box
- Minimum order of 5

Part Number	Description
91-0178-00	FS-U Universal Starter

SOCKET FOR FLUORESCENT STARTER

- Rating: 250V, 660W
- 9" 18 AWG lead wires
- UL listed

Part Number	Description
91-0727-00	Socket For Fluorescent Starter

FLUORESCENT SOCKET FOR MEDIUM BI-PIN LAMPS

- For T-8 and T-12 lamps
- 600 Volts, 660 Watts

91-0913-00

49-0943-01

Part Number	Description
91-0913-00	Low Profile Design without leads
49-0943-01	High Profile Design without leads

DENOM PANEL LED BOARD FOR IGT S2000

New

- Replaces incandescent lamps with crisp white LED display
- Decreases power consumption by 60%
- Powered by integrated connector interface from existing machine socket
- Easy installation; no modification, rewiring, cutting or drilling necessary
- Operates on existing 13.5V power supply
- Full 3 year warranty

Part Number	Description
70-1850-00	Denom Panel LED Board for IGT S2000

BELLY GLASS LED DISPLAY PANEL FOR IGT

New

- Specially designed LED array using the latest LED driver technology for IGT Game King upright
- Custom designed mounting bracket
- Bolts easily onto existing door panel, no modifications needed
- No ballast required, providing additional energy savings
- Return on investment is typically less than one year
- Full 3 year warranty

Part Number	Description
70-1866-00	Belly Glass LED Display Panel for IGT

LED DISPLAY BOARD FOR LARGE GRAPHIC PANELS

New

- LED board for large belly glass and topper graphic panels
- Ideal replacement for IGT S2000, most slant top machines, and upright video poker topper panels
- Two minute installation with no modifications to original hardware or wiring
- Consumes 1/6th of the energy versus a standard fluorescent lamp
- Special hardware packs sold separately
- Full 3 year warranty

Part Number	Description
70-1867-00	LED Display Board for Large Graphic Panels

SLANT TOP DISPLAY SIDE PANELS

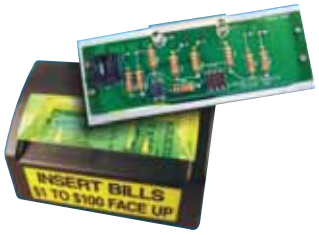
- For IGT slant top games
- Replaces F4 lamp and entire fixture assembly
- Metal housing stabilizes brackets from falling out
- Improved color dispersion without shadows
- Direct replacement, plug-in convenience
- 5-8 year life span
- Low heat generation, 70% lower power consumption
- Easy to install, no tools required
- Power cord supplied for direct plug-in, operates on 12 volts DC
- Limited 3 year warranty

* Graphic Panel not included

Part Number	Description
70-1821-00	Display Panel for 17" IGT Slant Tops
70-1822-00	Display Panel for 19" IGT Slant Tops

SLANT TOP BILL VALIDATOR DISPLAYS

- For IGT slant top games
- Greatly improve your bill face lighting
- Direct replacement, plug-in convenience
- Equipped with connector to interface with machine harness
- Low heat generation, 50% lower power consumption
- Easy to install, no tools required
- Operates on 13.5 volts DC
- Limited 3 year warranty



* Validator bezel not included

Part Number	Description
70-1815-00	Slant Top Display, White LEDs
70-1816-00	Slant Top Display, Yellow/Green LEDs

LED DENOM ARROW PANELS

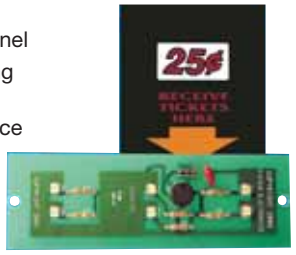
- For IGT Game King upright and I Games
- Direct replacement, plug-in convenience
- 5-10 year life span
- Equipped with connector to interface with machine harness
- Low heat generation, 50% lower power consumption
- Easy to install, no tools required
- Operates on 12 volts DC
- Limited 3 year warranty

* Graphic Panel not included

Part Number	Description
70-1817-00	Arrow Panel for Game King Upright
70-1818-00	Arrow Panel for "I" Games

DENOM LED PANEL FOR BALLY 6000

- Direct LED display replacement panel
- Contains two LED boards, replacing original incandescent lamps
- Equipped with connector to interface with Bally power harness
- Installed in minutes, no special tools required
- 5-8 year life span with 75% lower power consumption
- Operates on 7.5 volts DC or AC
- Limited 3 year warranty



* Graphic Panel not included

Part Number	Description
70-1813-00	6000 Denom LED Panel

S2000 BILL VALIDATOR DISPLAY BOARD

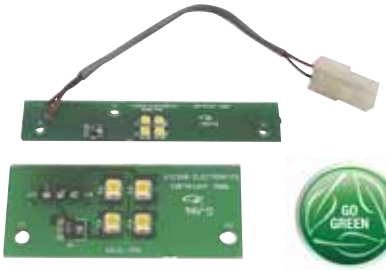
- For IGT S2000 slot machines
- LED lighted PCB with new bracket
- Bright green bill face and yellow panel
- Equipped with connector to interface with original machine harness
- Installed in minutes with only a screwdriver
- 5-8 year life span
- Operates on 12 volts DC
- Limited 3 year warranty

* Validator bezel not included

Part Number	Description
70-1814-00	S2000 Bill Validator Display

TICKET PRINTER ARROW LED BOARDS

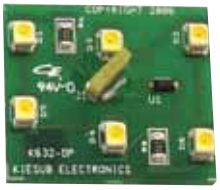
- For IGT 19" slant top and upright games
- Save money by replacing original boards that prematurely burn out
- Full 3 year warranty



Part Number	Description
70-1860-00	Ticket Printer Arrow LED Board, IGT Slant Tops
70-1861-00	Ticket Printer Arrow LED Board, IGT Uprights

REEL DENOM AREA LED BOARD

- For IGT 19" slant top games
- Replaces the incandescent lamp on reel machines
- Direct plug-in solution, brighter than the original lamp
- Full 3 year warranty



Part Number	Description
70-1862-00	Reel Denom Area LED Board

DISPLAY AREA LED BOARD FOR IGT BAR TOP VIDEO POKER

New

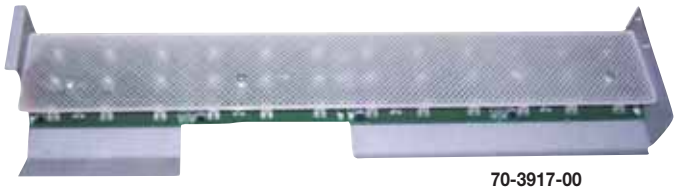
- LED replacement for incandescent lamps in IGT bar top video poker machines
- Easy to install with no modifications, splicing, drilling, etc.
- Energy efficient with long life
- 100% waterproof from spills
- Full 3 year warranty

Part Number	Description
70-1865-00	Display Area LED Board for IGT Bar Top Video Poker

HIGH INTENSITY LED FOR IGT GAMES

New

70-4187-00



70-3917-00

- Replaces F14 or F15 fluorescent lamp in IGT 17" and 19' top boxes and upright belly glass
- Diamond cut diffusing panel provides even illumination
- Easy installation, just remove the fluorescent lamp, pop in the LED panel and the ballast power plug goes directly into the LED panel
- Low power consumption means less heat generated

Part Number	Used In	Description
70-2776-00	IGT 17" & 19" Top Box	F14 Replacement with Horizontal Plug Configuration
70-4187-00	IGT 17" & 19" Top Box	F14 Replacement with Vertical Plug Configuration
70-4096-00	IGT 17" & 19" Top Box	F15 Replacement with Horizontal Plug Configuration
70-4006-00	IGT 17" & 19" Top Box	F15 Replacement with Vertical Plug Configuration
70-3917-00	IGT Upright Belly Glass	F15 Replacement with Drop-in Bracket System

BAR TOP BILL VALIDATOR LED DISPLAY PANELS FOR IGT

- For IGT bartops
- Long lasting, easy to install, drop-in replacements
- Two models to choose from for old or newer machines
- Full 3 year warranty

Part Number	Description
70-1863-00	Bar Top Bill Validator LED Board (New)
70-1864-00	Bar Top Bill Validator LED Board (Old)

LED EDGE-LIT PANEL FOR KONAMI BELLY GLASS

New

- Replacement for all Konami belly glass that is currently edge-lit with cold cathode lamps
- Powered by 12 volts directly, so there is NO inverter, ballast or adapter needed
- Just plug the power cord directly into the existing Molex connector that currently provides 12 volts of power to the CCFL inverter
- LEDs will not break when the Drop Crews let the door drop and then slam it closed

Part Number	Description
91-3161-00	LED Edge-Lit Panel For Konami Belly Glass

LED BELLY GLASS FIXTURE

New

- Ultra slim design provides powerful & evenly dispersed light output
- 45 high quality ultra-bright white LEDs
- +12vdc
- Can be OEM customized (overall size, mounting method and operating voltage) please inquire

Part Number	Description
96-1063-00	LED Belly Glass Fixture

T 1-3/4 AND T 3-1/4 WEDGE BASE LED

SINGLE LED

CLUSTER LED

- Save time and money by replacing your lamps with LEDs
- LEDs are maintenance free, lasting an average of 100,000 hours
- LEDs can reduce power consumption up to 80%
- Great for use on illuminated pushbuttons including poker / VLT pushbuttons
- Replace standard T 1-3/4 and T 3-1/4 wedge base lamps
- T 1-3/4 will also fit T 1-1/2 bases
- Designed to be drop-in replacements
- Direct replacements for 73, 86, 161, 194, 555 bulbs
- LEDs are equipped with a resistor

Part Number	Color	Base	LED Type	Volts	Lamp
91-5WB-61W2	White	T 1-3/4	Single (1)	6 vdc	#86
91-5WB-121W2	White	T 1-3/4	Single (1)	12 vdc	#73
91-5WB-121Y2	Yellow	T 1-3/4	Single (1)	12 vdc	#73
91-5WB-121R2	Red	T 1-3/4	Single (1)	12 vdc	#73
91-5WB-121G2	Green	T 1-3/4	Single (1)	12 vdc	#73
91-5WB-121B2	Blue	T 1-3/4	Single (1)	12 vdc	#73
91-10WB-53W	White	T 3-1/4	Cluster (3)	6 vdc	#259, #555
91-10WB-53Y	Yellow	T 3-1/4	Cluster (3)	6 vdc	#259, #555
91-10WB-53R	Red	T 3-1/4	Cluster (3)	6 vdc	#259, #555
91-10WB-53B	Blue	T 3-1/4	Cluster (3)	6 vdc	#259, #555
91-10WB-123W	White	T 3-1/4	Cluster (3)	12 vdc	#161, #194
91-10WB-123Y	Yellow	T 3-1/4	Cluster (3)	12 vdc	#161, #194
91-10WB-123R	Red	T 3-1/4	Cluster (3)	12 vdc	#161, #194
91-10WB-123G	Green	T 3-1/4	Cluster (3)	12 vdc	#161, #194
91-10WB-123B	Blue	T 3-1/4	Cluster (3)	12 vdc	#161, #194

T 3-1/4 WEDGE BASE LED

- Replaces standard T-3-1/4 wedge base incandescent lamps with long life, low power LEDs
- Designed to be drop in replacements for all the most popular miniature lamps
- Direct replacement for 161, 194, 259 bulbs
- LEDs have resistor on board
- Used for replacement for Illuminated pushbuttons

Part Number	Color	Voltage	Lamp
91-1157-00	Red	6vdc	#259
91-1158-00	Red	12vdc	#161, #194

T 1-3/4 WEDGE BASE LED

- High quality wedge base LED
- Best LED for color consistency, rated 100,000 hours
- Works well with bill validators and illuminated push buttons
- Color: White
- RoHS compliant

Part Number	Description
161-412059	12V T 1-3/4 Wedge Base LED, White

LED WEDGE BASE T 3-1/4 LAMP

- Ref.# WF321-OCW-014B-00
- White, 12V DC bi-polar

Part Number	Description
91-0750-00	LED Wedge Base T 3-1/4, White

6 CLUSTER WHITE LED

New

- 6 LEDs
- E10 screw base
- Color: white
- 12v

Part Number	Description
91-1024-00	6 Cluster White LED

SUZO-HAPP ECONOMY T 1-3/4 LEDS

- Save time and money by replacing your lamps with LEDs
- LEDs are maintenance free, lasting an average of 100,000 hours
- Great for use on illuminated pushbuttons including poker / VLT pushbuttons
- LEDs can reduce power consumption up to 80%
- T 1-3/4 will also fit T 1-1/2 bases
- Designed for drop-in replacement
- LEDs are equipped with a resistor

Part Number	Color	Base	LED Type	Volts
161-205059	White	T 1-3/4	Single (1)	6 vdc
161-212059	White	T 1-3/4	Single (1)	12 vdc
161-224059	White	T 1-3/4	Single (1)	24 vdc

TIVOLI BASE LED LAMPS

- Used in Mikohn signs
- 28 VDC

Part Number	Description
70-1445-00	Tivoli Base White LED, White
70-1445-10	Tivoli Base White LED, Red
70-1445-20	Tivoli Base White LED, Blue
70-1445-40	Tivoli Base White LED, Yellow

LAMP REMOVAL TOOL

- Specifically designed to remove and install T-1 ¾ wedge base lamps from poker/ VLT style buttons without removing the lampholder assembly
- Replace lamps quickly and easily from the top
- Contains a built-in lens cap removal blade under pocket-clip cap
- Compact size – only 5.2” long
- All metal construction for durability
- Great for lamp replacements in the field

Part Number	Description
92-10586-00	Lamp Removal Tool

LAMP EXTRACTOR TOOL

- Used to remove or insert minature lamps with bayonet –type bases
- Firmly and gently grasp lamps from panels and switchboards
- Includes return spring for fast lamp insertion and removal
- Tool size: 4”
- Grasp limited to 5/16” to prevent shorts

Part Number	Description
92-1763-00	Lamp Extractor Tool

LIGHT PRO LED LAMP ASSEMBLY

Stop changing fluorescents and replacing ballasts!

- LED lamp assembly replaces traditional fluorescents
- End caps can be removed and adjusted to maximize lighting
- For IGT machines simply plug the LED assembly harness into the lead that goes into the 24v electronic ballast
- Custom configurations and other sizes available.
- Mounts in fluorescent sockets same as a fluorescent
- Super bright flat LEDs in round clear 5/8” tube
- 5-year life expectancy, low power, low heat, mercury free; up to 78% in energy savings
- No ballast required; saves you money on replacement and maintenance costs
- For other machines, use 24V line
- Warranty: 2 year
- RoHS compliant
- Low current 24V AC/DC
- Custom Sizes Available

Connector View

Part Number	Description
91-1017-00	Light Pro F15/T8 LED Lamp Assembly
91-1026-00	Light Pro F6/T5 LED Lamp Assembly
91-1046-00	Adapter Harness for Aristocrat Games

BULK MINI LAMPS

161

555

73

- These lamps are the highest rated economy mini lamps in the industry
- Packaged in bulk bags or boxes
- Preferred by many OEMs (Original Equipment Manufacturers)
- Bulk packaging may not be broken

Part Number	Lamp Number	Volts	Base
91-2044-00	#44	6.3	Bayonet (T 3-1/4)
91-1120-00	#47	6.3	Bayonet (T 3-1/4)
91-1221-100	#73	14	Wedge (T 1-3/4)
91-1317-00	#85	28	Wedge (T 1-3/4)
91-1124-00	#86	6.3	Wedge (T 1-3/4)
91-1219-00	#161	14	Wedge (T 3-1/4)
91-1320-00	#194	14	Wedge (T 3-1/4)
91-1118-00	#259	6.3	Wedge (T 3-1/4)
91-1319-00	#555	6.3	Wedge (T 3-1/4)
91-1318-00	#656	28	Wedge (T 3-1/4)
91-1126-00	#657	28	Wedge (T 3-1/4)
91-1220-00	#658	14	Wedge (T 3-1/4)
91-1135-00	#906	13	Wedge (T 5)
91-0005-00	#1683	28	Bayonet (S8)

ECONOMY MINI LAMPS

- These lamps are the highest rated economy mini lamps in the industry
- Sold in convenient boxes of 10
- Preferred by many OEMs (Original Equipment Manufacturers)
- Min order 10

Bayonet Base

44, 47

Wedge Base

555

86, 73

161

4202

Part Number	Lamp Number	Volts	Base
91-0140-00	#E0209	28	2-Wire (T 1-1/2)
91-2019-10	#19	14.4	2 Prong (G 3-1/2)
91-1119-10	#44	6.3	Bayonet (T 3-1/4)
91-1120-10	#47	6.3	Bayonet (T 3-1/4)
91-0135-00	#55	7	Bayonet (G 4-1/2)
91-1221-10	#73	14	Wedge (T 1-3/4)
91-0073-10E	#E73	14	Wedge (T 1-1/2)
91-0137-00	#74	14	Wedge (T 1-3/4)
91-1317-10	#85	28	Wedge (T 1-3/4)
91-1124-20	#86	6.3	Wedge (T 1-3/4)
91-1124-10	#E86	6.3	Wedge (T 1-1/2)
91-0167-00	#89	13	Bayonet (SC)
91-0030-00	#158	14	Wedge (T 3-1/4)
91-1118-01	#159	6.3	Wedge (T 3-1/4)
91-1219-10	#161	14	Wedge (T 3-1/4)
91-1320-10	#194	14	Wedge (T 3-1/4)
91-1118-10	#259	6.3	Wedge (T 3-1/4)
91-0759-00	#359	1.35	Mini-Screw (G 3-1/2)
91-0659-10	#400	28	Wedge (T 3-1/4)
91-2455-10	#455	6.5	Bayonet (Flasher)(G 4-1/2)

Part Number	Lamp Number	Volts	Base
91-1321-10	#505	24	Wedge (T 3-1/4)
91-0523-00	#513	24	Wedge (T3-1/4)
91-1319-10	#555	6.3	Wedge (T 3-1/4) Clear
91-2656-10	#656	28	Wedge (T 3-1/4)
91-1126-10	#657	28	Wedge (T 3-1/4)
91-1220-10	#658	14	Wedge (T 3-1/4)
91-2755-10	#755	6.3	Bayonet (T 3-1/4)
91-0136-00	#756	14.4	Bayonet (T 3-1/4)
91-2757-10	#757	28	Bayonet (T 3-1/4)
91-2904-10	#904	13.5	Wedge (T5)
91-1135-10	#906	13	Wedge (T5)
91-0912-10	#912	12.8	Wedge (T5)
91-0150-00	#1112	12	Wedge (T 3-1/4)
91-1251-10	#1251	28	S.C. Bayonet (G 6)
91-1816-10	#1816	13	Mini Bayonet (T 3-1/4)
91-1819-10	#1819	28	Mini Bayonet (T 3-1/4)
91-1820-10	#1820	28	Bayonet (T 3-1/4)
91-1847-10	#1847	6.3	Bayonet (T 3-1/4)
91-0069-00	#4202	24	Neo/Base
91-0586-00	#10969	12	Wedge (T 3-1/4)

DELUXE MINI LAMPS

Bayonet Base

44, 47

Wedge Base

555

161

86

73

- Brand name GE or Sylvania mini lamps
- These high quality lamps out perform all import type mini lamps
- Sold in convenient boxes of 10

Part Number	Lamp Number	Volts	Base
91-0044-00	#44	6.3	Bayonet (T 3-1/4)
91-0047-00	#47	6.3	Bayonet (T 3-1/4)
91-1122-00	#55	7	Bayonet (G 4-1/2)
91-0057-00	#57	14	Bayonet (G 4-1/2)
91-0067-00	#67	13.5	S.C. Bayonet (G 6)
91-0073-00	#73	14	Wedge (T 1-3/4)
91-0074-00	#74	14	Wedge (T 1-3/4)
91-0086-00	#86	6.3	Wedge (T 1-3/4)
91-0089-00	#89	13	S.C. Bayonet (G 6)
91-0161-00	#161	14	Wedge (T 3-1/4)
91-0194-00	#194	14	Wedge (T 3-1/4)

Part Number	Lamp Number	Volts	Base
91-0212-00	#359	14	Wedge Xenon (T 3-1/4)
91-1125-00	#222	2.25	Screw (TL 3)
91-0313-10	#313	28V	Bayonet (T 3-1/4)
91-2455-10	#455	6.5V	Bayonet (Flasher) (G 4-1/2)
91-0555-00	#555	6.3	Wedge (T 3-1/4)
91-0658-00	#658	14	Wedge (T 3-1/4)
91-0755-00	#755	6.3	Bayonet (T 3-1/4)
91-0136-00	#756	14.4	Bayonet (T 3-1/4)
91-0906-00	#906	13	Wedge (T 5)
91-0912-00	#912	12.8	Wedge (T 5)
91-1819-00	#1819	28V	Bayonet (T 3-1/4)

WEDGE BASE SOCKETS FOR MINI LAMPS

- Push Twist Type

49-0941-00

49-0942-00

91-0722-00

91-0950-00

Part Number	Description
49-0941-00	T 1-1/2 Wedge Socket
49-0942-00	T 1-3/4 Wedge Socket (For E86 only)
91-0722-00	T 1-3/4 Wedge Socket (For all Except E86)
91-0950-00	T 3-1/4 Wedge Socket

50W MR16 PROJECTION LAMP

- 12V, 50W projection lamp with 30 degree flood beam spread
- Used in casino signs
- 3,000K color temperature
- 5,000 life hours
- 2-pin GX5.3 base

Part Number	Description
91-0677-00	MR16 Projection Lamp

SOCKET FOR MINI LAMPS

- Sockets for #44, 47, 51 & 1893 Mini Lamps
- Minimum order 10 pcs.

91-0043-00

91-1119-99

Part Number	Description
91-0043-00	Socket w/90° Right Angle Bracket
91-1119-99	Socket for Mini Bayonet

MINI-LAMP FOR CASINO SIGNS

- Used in progressive signs above slot machines
- 2-wire base, T 1.5 (Tivoli style)
- 28 volts, .04 amps

Part Number	Description
91-0185-00	28V Clear Bulb With Base
91-0140-00	28V Clear Bulb Only
91-0185-0B	28V Blue Bulb With Base
91-0185-0R	28V Red Bulb With Base

XENON 591 BULB

NEW

- Used on WMS Bluebird tower light
- T3-1/4 wedge base
- 14V

Part Number	Description
91-1018-00	Xenon 591 Bulb

INCANDESCENT LAMPS

- Various types of incandescent lamps, from typical lamps used everyday in your home, to the more rugged and durable appliance and rough service lamps
- American made unless otherwise noted

Ref. No.	Part Number	Color	Watts	Volts	Lamp Type
A	91-0917-00	White	25	120	Pearl White Globe
B	91-1167-00	Frost	25	120	25A Rough Service
B	91-0919-00	Frost	40	120	40A
B	91-1165-00	Frost	40	120	40A15 Appliance
C	91-1161-10	Red	11	130	Color Display Lamp*1
C	91-1161-18	Clear	11	130	Color Display Lamp*1

*Not made in the U.S.A.
1 Replacement for AMI/Rowe Jukeboxes

SPECIALTY SERVICE LAMPS

- Various sizes and styles for different applications
- American made unless otherwise noted

Ref. No.	Part Number	Color	Watts	Volts	Lamp Type
A	91-1193-00	Clear	6	120	6S6, Candelabra
B	91-1174-00	Clear	6	120	6S6DC
B	91-0903-00	Clear	25	120	25T8DC
C	91-27C7-00	Clear	7	120	7C7, Economy*
C	91-07C7-00	Clear	7	120	7C7, Deluxe
D	91-10C7-00	Clear	10	120	10C7, DC
E	91-2510-00	Frost	25	120	25T10
E	91-4010-00	Frost	40	120	40T10
F	91-1182-00	Frost	65	120	65BR30 Flood
G	91-1186-00	Clear	10	48 - 60	Crane Bulb, Candelabra
G	91-1187-00	Clear	10	130	Crane Bulb, Candelabra
H	91-0177-00	Clear	7	120	Mini Globe

*Not made in the U.S.A.

TERMS & CONDITIONS

Order Acceptance:

All orders are subject to approval at our headquarters in Elk Grove, Illinois. Order by phone, fax, and mail or via our web site at www.suzohapp.com

Payment Terms:

Our terms are C.O.D., Visa, MasterCard, American Express or Net 30 days with approved credit.

When sending money in advance of shipping, please include payment for shipping charges and your state sales tax, applicable in AL, AZ, CA, CO, FL, GA, IA, IL, IN, KS, KY, LA, MD, MI, MN, MS, NC, ND, NE, NJ, NM, NV, NY, OH, OK, PA, SC, SD, TN, TX, VA, WA, WI.

All Prices are F.O.B. our dock unless otherwise specified.

Wire Transfer Information:

Contact our Accounts Receivable department at 888-289-4277.

Return Policy:

All returns must be authorized by the Suzo-Happ Customer Service Department - call, e-mail, write, or fax for an authorization to return product (RMA).

All claims for shortage, damage, etc. must be made within ten business days from receipt.

Returns without a visible RMA number on the label will not be accepted, or subject to a $10.00 handling / processing fee.

All returns are subject to a 25% restocking fee.

Return authorizations expire **30 days** from the date issued.

Any product can be returned for inspection, however, credits are typically issued for goods purchased within **30 Days and returned in "like new" condition** or manufacturer warranty repairs within 90 Days from date of sale.

Product received that does not meet the proper criteria for credit will be returned back to the customer. A Customer Service Representative will call the customer to discuss product return options. All shipping costs are the responsibility of the customer.

IMPORTANT: Certain product purchased from Suzo-Happ is identifiable with a Serial Number. This number is used for product warranty and specific identification purposes. If the product being returned has a serial number it must be provided to the Customer Service Representative when requesting the RMA.

Damaged Shipments And Shortages:

All claims for shortage, damage, etc. must be made within ten business days.

Prices:

Prices are not listed in our catalog. Current prices can be found on our web site at www.suzohapp.com or consult your Suzo-Happ sales representative.

Typographical Errors:

Suzo-Happ Group reserves the right to correct typographical errors, including errors on our website, and in our catalogs or other materials. If a product is listed with an incorrect information due to typographical error, Suzo-Happ Group has the right to refuse or cancel any orders placed based upon the incorrect information.

Suzo-Happ Products:

Suzo-Happ reserves the right to improve our products without prior notice.

Copyright Notice:

All logos and trade names within our catalogs and on our web site are respective trademarks of their corporations.

Patents, Trademarks And Copyrights

Suzo-Happ products are protected by United States and Foreign Patents (granted and pending). Suzo-Happ maintains an aggressive policy against infringement of patents, copyrights or trademarks.

Unavoidable Delays and Acts of God:

We make every effort to ensure your order is shipped complete and on-time. Delivery time can be affected by circumstances beyond our control, such as a raw material shortage or a dock strike. Some of our suppliers close down for 2 or 4 weeks in the summer. We make every effort to maintain adequate inventories in our distribution centers to allow for the unexpected. However, shortages of raw materials or surges in demand may deplete our stock. In such cases, we will continue to give you the best possible service. We cannot be liable for delays resulting from Acts of God or any other circumstances beyond our control.

Privacy Policy:

Your privacy as a Suzo-Happ customer is important to us. You can view our on-line privacy policy by going on our web site at www.suzohapp.com

Minimum Order Policy:

Orders placed via Phone, Fax, Email or in person with a Sales Representative	
Customer with the following sales in the last 13 months*	**Order Minimum**
less than $2,500.00	$100.00
$2,500.00 - $4,999.00	$75.00
$5,000.00 +	$50.00
Orders placed via the Suzo-Happ Website	
Customer with the following sales in the last 13 months*	**Order Minimum**
$0 +	$25.00
* The 13 months are based on a rolling 13 months of sales history.	

Custom Pushbutton Legends:

Minimum Order Policy:

There is a minimum order of 100 pieces per legend.

Artwork Charges:

$35.00 Artwork Fee for 1st Legend – Single Color
$30.00 Artwork Fee for 2nd Legend – Single Color
$65.00 Artwork Fee for Each Multi-color Legend

Limited Warranty

Suzo-Happ warrants that the product will be free from defects in material and workmanship for a period of ninety (90) days from the date of delivery of the product subject to the following conditions: (i) the limited warranty does not cover any defect in the product arising from any drawing, design or specification supplied by the customer, (ii) the limited warranty does not cover any defect arising from normal wear and tear, willful damage, negligence, abnormal working conditions, failure to follow Suzo-Happ's instructions (whether oral or in writing), misuse, alteration or maintenance, service or repair of the product without Suzo-Happ's approval, (iii) the limited warranty does not cover parts, materials or equipment not manufactured by Suzo-Happ, in which case, the customer shall only be entitled to the benefit of any warranty or guarantee given by the manufacturer of such part, material or equipment to Suzo-Happ, (iv) the limited warranty is only available to the first purchaser of the product and (v) the customer must have paid the price for the product by the due date set forth in the order. Suzo-Happ shall determine, in its sole and absolute discretion, whether any defect, damage or other problem is subject to the limited warranty set forth in the first sentence of this paragraph.

In the event any defect, damage or other problem is subject to the limited warranty set forth in the first sentence of this paragraph, Suzo-Happ shall (a) determine, in its sole and absolute discretion, whether Suzo-Happ shall repair or replace the product or refund the customer for the price of the product and (b) fully reimburse the customer for all reasonable and documented shipping charges and expenses incurred by the customer to ship the product for warranty services.

EXCEPT AS SET FORTH HEREIN, SUZO-HAPP HAS NOT MADE AND DOES NOT MAKE ANY REPRESENTATION OR WARRANTY OF ANY NATURE WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ANY STATEMENTS OR REPRESENTATIONS MADE BY ANY OTHER PERSON TO THE CONTRARY ARE NULL AND VOID.

UNLESS OTHERWISE PROVIDED BY APPLICABLE LAW, SUZO-HAPP'S LIABILITY AND OBLIGATION, IF ANY, FOR ANY DEFECTIVE PRODUCT SHALL BE LIMITED TO REPAIR AND REPLACEMENT OF THE PRODUCT OR A REFUND FOR THE PRICE OF THE PRODUCT, AT SUZO-HAPP'S OPTION, AND SUZO-HAPP SHALL NOT BE LIABLE FOR ANY DAMAGES, WHETHER DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR OTHERWISE (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR INCONVENIENCE OR LOSS OF USE, REVENUE, PROFITS OR SALES) BECAUSE OF PRODUCT DEFECTS, OR ANY DUTY TO DEFEND, BY REASON OF ANY DEFECTS IN THE PRODUCTS.

Handling Fee:

All orders will be charged a $5.75 handling fee plus appropriate shipping charges and necessary taxes.

Terms & Conditions are subject to change.

SUZO HAPP
www.suzohapp.com

order form

261

106 Garlisch Drive
Elk Grove, IL 60007
Toll Free Phone: **888-289-4277**
Phone: **847-593-6130**
Toll Free Fax: **800-593-4277**
Fax: **847-593-6137**

OFFICE USE ONLY: SOURCE CODE _____ REP NO. _____ ☐P.P. ☐COL. MISC._____
ORDER NUMBER _____ S.D. _____ I.H.D._____

BILL TO _____ DATE _____

_____ _____
YOUR P.O. NO.

SHIP TO _____ TERMS _____
F.O.B. Shipping Point

_____
SALES TAX NUMBER
Include copy of Tax Certificate

SUZO-HAPP CUSTOMER NUMBER

EMAIL _____
WEBSITE _____
Phone No. ( ) _____ FAX No. ( ) _____

SHIP VIA: **U.P.S.** ☐ RED ☐ BLUE OTHER _____ ☐ GROUND ☐ 3-Day Select TRUCK _____

HO ☐ Hold and Ship Complete* (May delay order)
OK ☐ OK to Backorder**
BC ☐ OK to Backorder, but ship complete***

LINE	QUANTITY	PART NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

MEMO:

Sub-Total		
State Sales Tax where applicable†		
Shipping Charges		
TOTAL		

NOTE: All orders are subject to Corporate Office approval. **Return of goods must be authorized.**
Prices are subject to change without prior notice.
†Tax applicable in AK, AL, AZ, CA, CO, FL, GA, IA, IL, IN, KS, KY, LA, MD, MI, MN, MS, NC, ND, NE, NJ, NM, NV, NY, OH, OK, PA, SC, SD, TN, TX, VA, WA, WI. Credit cards only.

☐ VISA ☐ MasterCard ☐ Cards Exp. Date _____ Security Code _____

_____

THANK YOU FOR YOUR ORDER

X _____

CARD HOLDER SIGNATURE / ORDER AUTHORIZED BY
If you do not have an account with SUZO-HAPP, please request a Credit Application. Credit card orders must have cardholders signature. Thank you for your cooperation!

***HOLD AND SHIP COMPLETE** - Hold the order until it can be shipped complete. (May delay order)
****NO INSTRUCTIONS, or OK TO BACKORDER** - Ship what we have, backorder the remainder.
*****OK TO BACKORDER, BUT SHIP COMPLETE** - Ship what we have, ship backordered items together.

262

order form

106 Garlisch Drive
Elk Grove, IL 60007

Toll Free Phone: **888-289-4277**
Phone: **847-593-6130**

Toll Free Fax: **800-593-4277**
Fax: **847-593-6137**

SUZO HAPP
www.suzohapp.com

OFFICE USE ONLY: SOURCE CODE _____ REP NO. _____ ☐P.P. ☐COL. MISC._____
ORDER NUMBER _____S.D. _____I.H.D._____

BILL TO _____ DATE _____

_____ _____
YOUR P.O. NO.

SHIP TO _____ TERMS _____
F.O.B. Shipping Point

_____ _____
SALES TAX NUMBER
Include copy of Tax Certificate

EMAIL _____
WEBSITE _____

SUZO-HAPP CUSTOMER NUMBER

Phone No. ( ) _____ FAX No. ( ) _____

SHIP VIA: **U.P.S.** ☐ RED ☐ GROUND ☐ BLUE ☐ 3-Day Select OTHER _____ TRUCK _____

HO ☐ Hold and Ship Complete* (May delay order)
OK ☐ OK to Backorder**
BC ☐ OK to Backorder, but ship complete***

LINE	QUANTITY	PART NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

MEMO:

Sub-Total		
State Sales Tax where applicable†		
Shipping Charges		
TOTAL		

NOTE: All orders are subject to Corporate Office approval. **Return of goods must be authorized.**
Prices are subject to change without prior notice.
†Tax applicable in AK, AL, AZ, CA, CO, FL, GA, IA, IL, IN, KS, KY, LA, MD, MI, MN, MS, NC, ND, NE, NJ, NM, NV, NY, OH, OK, PA, SC, SD, TN, TX, VA, WA, WI. Credit cards only.

☐ VISA ☐ MasterCard ☐ American Express Cards Exp. Date ☐☐ ☐☐ Security Code ☐☐☐

☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

THANK YOU FOR YOUR ORDER

X _____

CARD HOLDER SIGNATURE / ORDER AUTHORIZED BY
If you do not have an account with SUZO-HAPP, please request a Credit Application. Credit card orders must have cardholders signature. Thank you for your cooperation!

***HOLD AND SHIP COMPLETE** - Hold the order until it can be shipped complete. (May delay order)
****NO INSTRUCTIONS, or OK TO BACKORDER** - Ship what we have, backorder the remainder.
*****OK TO BACKORDER, BUT SHIP COMPLETE** - Ship what we have, ship backordered items together.

SUZO HAPP

credit application

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106 Garlisch Drive Elk Grove, IL 60007 Phone: **847-593-6130** Suzo-Happ Credit Dept. Fax: **847-952-5931**

If you do not have an account with SUZO-HAPP and a NET 30 OPEN ACCOUNT is desired, complete this credit application and submit for our processing along with your order. Or fax directly to our Credit Department at 847-952-5931.

REQUEST FOR NET 30 OPEN ACCOUNT

DATE _____

☐ NEW CUSTOMER ☐ PRESENT CUSTOMER CUSTOMER NO. _____

TAX EXEMPT? ☐ YES ☐ NO SALES EXEMPTION CERTIFICATE _____

(Please fax or send a copy of your Tax Certificate for our files)

BILL TO (Attention)

NAME _____

ADDRESS _____

_____

PHONE ( ) _____

FAX ( ) _____

E-MAIL _____

WEBSITE _____

F.E.I.N. or SOCIAL SECURITY NO. _____

SHIP TO (Attention)

NAME _____

ADDRESS _____

_____

_____

A/P Contact Name _____

E-MAIL _____

PHONE ( ) _____ Ext. _____

FAX ( ) _____

If you would like a Monthly Statement please indicate method:

☐ Email ☐ Fax ☐ Mail

BANK INFORMATION

BANK NAME _____

ADDRESS _____ CITY _____ STATE _____ ZIP _____

(Exact address or closest intersecting street)

NAME OF BANK OFFICER TO CONTACT _____ PHONE ( ) _____

CUSTOMER PERMISSION FOR BANK TO GIVE REFERENCES TO HAPP CONTROLS:

SIGNED _____ BUSINESS CHECKING ACCT NO. _____

TITLE _____ HOW LONG IN BUSINESS? _____

BANK FAX NO. _____ NUMBER OF EMPLOYEES _____

☐ CORPORATION ☐ PARTNERSHIP ☐ PROPRIETORSHIP ☐ OTHER, EXPLAIN _____

NAME OF OFFICER, PARTNER, OR OWNER: _____ D & B _____

TRADE REFERENCES (U.S. ONLY)

COMPANY NAME _____ ADDRESS _____

(Include City & State)

ACCT NO. _____ FAX _____ PHONE ( ) _____

COMPANY NAME _____ ADDRESS _____

(Include City & State)

ACCT NO. _____ FAX _____ PHONE ( ) _____

COMPANY NAME _____ ADDRESS _____

(Include City & State)

ACCT NO. _____ FAX _____ PHONE ( ) _____

COMPANY NAME _____ ADDRESS _____

(Include City & State)

ACCT NO. _____ FAX _____ PHONE ( ) _____

YOUR NAME (Please Print) _____

YOUR SIGNATURE _____ TITLE: _____ DATE _____

Please allow 2 weeks for processing of Credit Application. ***Fax to Suzo-Happ Credit Dept. (847) 952-5931***

APPROVED NET 30 ☐ YES ☐ NO OFFICE USE ONLY

DATE: _____ CREDIT MANAGER: _____

Top Reasons to Order from SUZO HAPP

Easy Ordering: Phone 888-289-4277 **Fax:** 800-593-4277

E-Mail: info@suzohapp.com ***www.suzohapp.com***

Shipping within 24 hours: Orders for "in-stock: itmes will be shipped within 24 hours. Orders placed on weekends will be shipped the next business day.

Technical Support: Our technical specialists are ready to answer your questions about SUZO-HAPP manufactured products.

Online Ordering with Shopping Cart: With our secure on-line ordering system you can build an order, check order status, display order history, reprint invoices, view up-to-date statements and pay invoices.

Extensive product line: We carry the broadest product lines in our industry

Multiple shipping locations: Prompt shipment with distribution centers across the U.S.

Quality: We test and retest the products we design to insure quality.

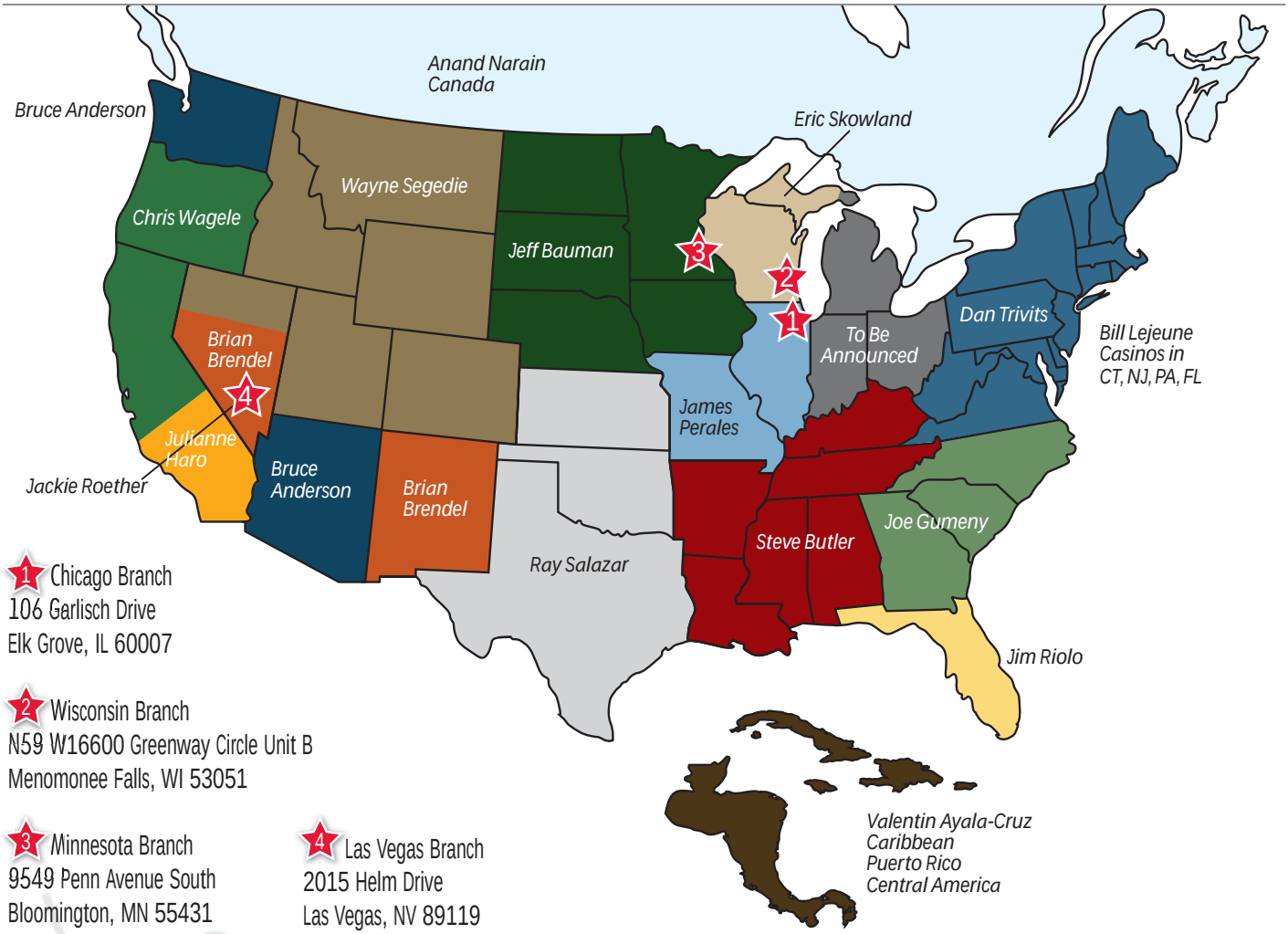
Value: We have competitive prices and special prices for volume buyers. Ask for a quote.

Innovative Products: Our engineering team constantly develops new industry products. Cost reduction and product improvement are our goals.

"Just in time shipping": Regulate inventory by establishing a blanket order. We will ship per your schedule so you will always have the right amount of inventory.

Pay with plastic or open an account: We accept Visa, MasterCard and American Express. Net 30 days open account is available with approved credit.

SUZO-HAPP GROUP NORTH AMERICAN SALES



1 Chicago Branch
106 Garlisch Drive
Elk Grove, IL 60007

2 Wisconsin Branch
N59 W16600 Greenway Circle Unit B
Menomonee Falls, WI 53051

3 Minnesota Branch
9549 Penn Avenue South
Bloomington, MN 55431

4 Las Vegas Branch
2015 Helm Drive
Las Vegas, NV 89119

Sales Department

Experience the Difference

Suzo-Happ Group talented sales staff brings you over 450 years of combined experience

The outside sales force, combined with the inside sales force, establishes Suzo-Happ Group as the most experienced sales staff within the Coin-Operated parts industry.

These industry veterans are proudly representing Suzo-Happ product lines for the Gaming, Amusement, Retail Billiard, Vending, and Industrial industries.

At Suzo-Happ Group, we have assembled special sales teams to take care of your parts needs. Each team contains both an outside sales representative plus an inside sales representative(s). Together this team offers you many years of industry experience and will assist you in providing the best products to aid in the effective operation of your company.

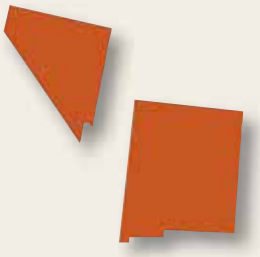
The map above is a general guide of what representative covers each territory. However, it is best to call (888) 289-4277 to find your specific sales rep. as some representatives' territories are not geographical. Use the following pages to reference the many convenient ways for you to contact them; via phone, fax, e-mail or voice mail.

SUZO-HAPP GROUP NORTH AMERICAN SALES

Bruce Anderson
Phone : (800) 511-1796 x7261
Cell : (847) 770-2823
Fax : (520) 494-2569
bruce.anderson@suzohapp.com

Jackie Roether
Office : (800) 511-1796 x7646
Cell : (702) 334-6480
Fax : (877) 870-2259
jackie.roether@suzohapp.com

Chris Wagele
Phone : (800) 511-1796 x7664
Cell : (707) 548-4731
Fax : (702) 597-4837
chris.wagele@suzohapp.com



Brian Brendel
Office : (800) 511-1796 x7663
Cell : (303) 886-0052
Fax : (877) 870-2259
brian.brendel@suzohapp.com

Julianne Haro
Phone : (800) 511-1796 x7233
Cell : (951) 453-9374
Fax : (909) 899-8977
julianne.haro@suzohapp.com

Wayne Segedie
Phone : (800) 511-1796 x7240
Office : (303) 663-8210
Cell : (847) 867-0621
Fax : (303) 663-0815
wayne.segedie@suzohapp.com

Jeff Bauman
Phone : (800) 511-1796 x7420
Office : (763) 205-5405
Cell : (847) 340-5839
Fax : (763) 205-5476
jeff.bauman@suzohapp.com

Ray Salazar
Phone : (800) 511-1796 x7390
Office : (936) 931-5530
Cell : (713) 553-0242
ray.salazar@suzohapp.com

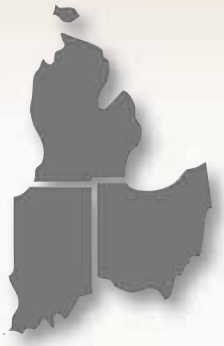
SUZO-HAPP GROUP NORTH AMERICAN SALES

James Perales
Phone : (800) 511-1796 x7141
Cell : (847) 867-0616
Fax : (847) 952-3290
james.perales@suzohapp.com

Steve Butler
Phone : (800) 511-1796 x7300
Cell : (847) 867-0611
Fax : (877) 553-6515
steve.butler@suzohapp.com

Eric Skowlund
Phone : (800) 511-1796 x7470
Office : (262) 677-9125
Cell : (847) 867-0628
Fax : (262) 677-4372
eric.skowlund@suzohapp.com

Joe Gumeny
Phone : (800) 511-1796 x7262
Office : (770) 975-3469
Cell : (770) 855-8409
Fax : (770) 974-7057
joe.gumeny@suzohapp.com



To Be Announced
Call (888) 289-4277
For Information

Jim Riolo
Phone : (800) 511-1796 x7330
Office : (561) 734-9437
Cell : (800) 616-0604
Fax : (561) 734-9495
jim.riolo@suzohapp.com

Dan Trivits
Phone : (800) 511-1796 x7290
Cell : (847) 867-0613
Fax : (800) 593-4277
dan.trivits@suzohapp.com

Casinos In:
CT, NJ, PA & FL

Bill Lejeune
Phone : (800) 511-1796 x7662
Cell : (443) 994-9698
Fax : (877) 870-2259
bill.lejeune@suzohapp.com

Welcome
to the Exciting World of
Online Ordering

The **SUZO-HAPP** shopping cart system allows you to easily build a secure online order with current pricing and availability 24 hours a day, 7 days a week. Other online benefits of Online Ordering include viewing the status or history of orders, easy duplication of previous orders, and email notification with tracking information upon shipment of online orders.

Your SUZO-HAPP Account

- Open 24 hours a day / 7 days a week
- Secure on-line ordering
- Convenient and easy to use
- Customer Statement - Provides you with an up-to-date statement of your account
- Reprint Invoices - Allows you to view and reprint invoices within the past 15, 30, 60, 90, 120, 150, and 180 days
- Pay Invoices by Credit Card - Allows you to take existing unpaid invoices and pay full or partial payment by credit card
- Update customer account information
- Real-Time pricing

Build an Order

- Easy navigation
- Up to the minute pricing
- View stock availability
- email notification upon shipment of order
- Tracking information emailed to you

Check Status of Orders

- Look-up **SUZO-HAPP** order number
- Find out if the order has been shipped

Display Order History

- View complete orders
- Search by purchase order number or order date
- Obtain shipping information with tracking number
- Easily duplicate orders

View Item History

- View items previously purchased by item number or date
- Easily build a new order by clicking on previously purchased items and adding them to the shopping cart

Visit Our Website @ suzohapp.com

Stay Connected with suzohapp.com

At SUZO-HAPP we believe in the importance of providing information to our customers. Our web site keeps you informed of new things at SUZO-HAPP.

Corporate Website

Within this section you will find general updated information on SUZO-HAPP, product support, upcoming trade shows, press releases, access to our online catalogs, new products, online ordering, and monthly specials.

Online Catalogs

Allows you to view our Amusement, Gaming, Vending and Industrial products with just a click of the mouse. You will find our online catalogs easy to navigate, with illustrations, current prices, availability, and technical information.

New Products

New and innovative products are developed and introduced on a continual basis. Some are so new they do not appear within the printed catalog. We suggest you check out the New Products section frequently to be aware of the latest product offerings from SUZO-HAPP.

Online Ordering

Our shopping cart system allows you to easily build a secure online order with current pricing and availability 24 hours a day, 7 days a week. Along with numerous other features, online benefits of Online Ordering include viewing the status or history of orders, easy duplication of previous orders, and email notification with tracking information upon shipment of online orders.

Monthly Specials

In order to keep our customers informed of the latest specials, we place copies of our sale flyers on our web site. To view, simply click and enjoy the savings.

suzohapp.com also includes access to New Products and Monthly Specials -

Begin your Online Experience Today!

ELK GROVE, IL Manufacturing Facility

ELK GROVE, IL Distribution Facility

MENOMONEE FALLS, WI

BLOOMINGTON, MN

CABINET WORKS, NV

LAS VEGAS, NV

REPLACEMENT GAMING PARTS

Keno Games
Player Tracking Systems
Slot Machines
Video Poker Machines

REPLACEMENT VENDING PARTS

Bill Changers
Can & Bottle Machines
Coffee Machines
Cold Drink Machines
Condiment Stands
Cup Soda Machines
Food Machines
Glass Front Machines
Ice Cream Machines
Milk Machines
Snack Machines

REPLACEMENT AMUSEMENT PARTS

Crane Games
Dart Games
Foosball Games
Hockey Games
Jukeboxes
Pinball Games
Pool Tables
Redemption Games
Shuffleboard Games
Soccer Games
Video Games

INDUSTRIAL PARTS

Controls
Hoppers
Snow Plow Controls

MIDWAY PARTS & SERVICE

Authorized Midway Parts
Board Repair

ELK GROVE SERVICE CENTER

Ceronix Monitor Repair
Kortek Monitor Repair
Makvision Monitor Repair
MEI Validator Repair
Neotec Monitor Repair
Starpoint Reel Repair
TouchTunes Device Repair
VisionPro Monitor Repair
Wells-Gardner Monitor Repair

LAS VEGAS SERVICE CENTER

Aristocrat Power Supply Repair
Ceronix Monitor Repair
Futurelogic Printer Repair
IGT Power Supply Repair
Kortek CRT & LCD Repair
MEI Validator Repair
Starpoint Reel Repair
Suzo-Happ Coin Counter Repair
Tatung Monitor Repair
Tovis Monitor Repair
VisionPro Monitor Repair
Wells Gardner Monitor Repair

NEW JERSEY SERVICE CENTER

Ceronix LCD Repair
Futurelogic Printer Repair
Kortek LCD Repair
MEI Validator Repair
Vision Pro LCD Repair

SUZO HAPP

GAMING, AMUSEMENT AND INDUSTRIAL COMPONENTS

ELK GROVE, IL
106 Garlisch Drive
Elk Grove, IL 60007
TEL: 847-593-6130
FAX: 847-593-6137
Toll Free Phone: 888-289-4277
Toll Free Fax: 800-593-4277
email: info@suzohapp.com

CABINET WORKS
7390 Eastgate Rd, Suite 160
Henderson, NV 89011
LOCAL TEL: 702-438-8584
FAX: 702-438-3988
Online: suzohapp.com/cabinetworks
email:
info-cabinetworks@suzohapp.com

LAS VEGAS, NV
LOCAL TEL: 702-891-9116
FAX: 702-891-9117
Toll Free Phone: 888-289-4277
Toll Free Fax: 877-870-2259

BLOOMINGTON, MN
LOCAL TEL: 952-887-5299
FAX: 952-887-5656
Toll Free Phone: 800-879-0321

MENOMONEE FALLS, WI
LOCAL TEL: 262-703-4168
FAX: 262-703-4171
Toll Free Phone: 800-542-4655

BILL VALIDATORS

CashCode
ICT
MEI
Pyramid

BILLIARD SUPPLIES

3M
Barge Cement
Belgian Aramith Balls
Blue Knight
Championship
Charles W House & Sons
Dynamo
E.S.D.
Elk Master
Greenwald
Le Pro
Mali
Master
National
Nortech
Silver Cup
TableMaster
Tweeten Fibre Co
Valley

CARD READERS

Neuron
Panasonic

CLEANING & MAINTENANCE SUPPLIES

3M
Aero Lubriplate
Camie
Devcon
Edward Vacuum
Everpure
GC/Waldom
Goo Gone
SUZO-HAPP
Kester Solder
Krazy Glue
Krylon
Loctite
Mills
Mr. ZIP
Novus
Oil Eater
Sani-Tuff
Scott
Simple Green
Sun-Glo
Tech Spray
Velcro
WD-40
Wildcat

COIN & CURRENCY EQUIPMENT

American Changer
Coin Mechanisms Inc.
SUZO-HAPP
Industrias Lorenzo
Klopp International
Lynde-Ordway
Magner
NRI
Pap-R Products
Standard Change-Makers

COIN DOORS

Entropy U.S.A.
SUZO-HAPP
Wells-Gardner
Coin Controls
Industrias Lorenzo

DRIVING CONTROLS

SUZO-HAPP Pedals
SUZO-HAPP Shifters
SUZO-HAPP Steering Wheels

ELECTRICAL SUPPLIES

3M
AMP
Cherry
Cooper Bussman
Duracell
Eagle
Eveready
Hubbell
Lightwave
Maglite
Molex
Procell
Rayovac
Santronics
Streamlight
Tripp Lite
Zippy

ELECTRONICS

NTE

HOPPERS

Azkoyen
SUZO-HAPP

JOYSTICKS & TRACKBALLS

SUZO-HAPP

LIGHTING

CEC
CI Innovations
GE
Philips
Sylvania

MATERIAL HANDLING EQUIPMENT

Akro-Mils
B&P Manufacturing
Dunn Tonner
Dutro
Escort
Lectro Truck
Lista
Magliner
Nortech
Quantum
Stevens
U-Lift
Wesco

METERS

Emit
ENM
SUZO-HAPP
Kessler-Ellis

MONITORS

Ceronix
SUZO-HAPP Vision Pro
Kortek
Makvision
Neotec
Tatung
Wells-Gardner

OPTICAL GUNS

SUZO-HAPP

POWER SUPLIES

SUZO-HAPP Power Pro

PRINTERS

ICT
Futurelogic

PUSHBUTTONS

SUZO-HAPP
Starpoint

SECURITY PRODUCTS

Abus
American Lock
Duo
Federal Lock
Flex-Ace

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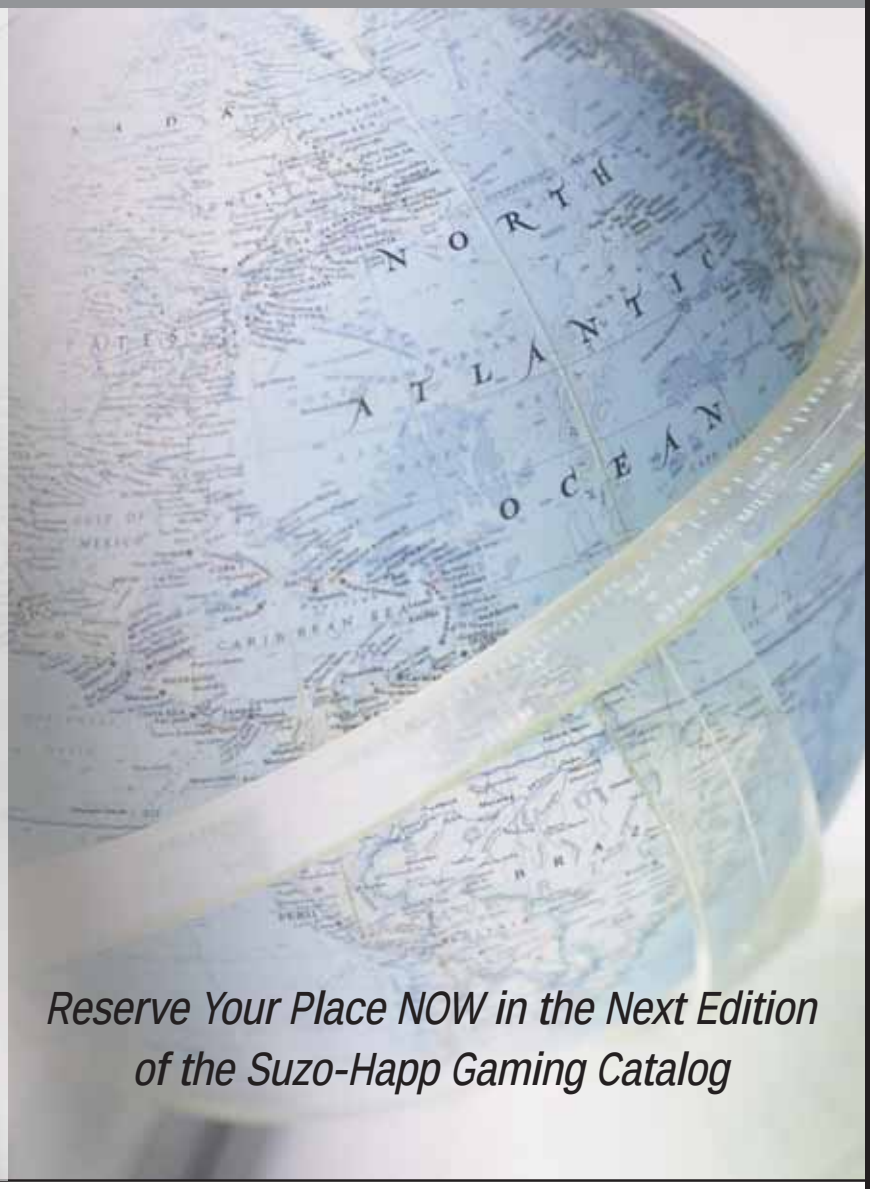

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